Construction News

BUILDING OPERATIONS FOR NOVEMBER

Following is a list of contracts awarded published by the F. W. Dodge Co. throughout the States of New England, New York, New Jersey, Pennsylvania, Maryland, Delaware, District of Columbia, Virginia, Ohio, West Virginia, Illinois, Indiana, Iowa, Wisconsin, Michigan, North and South Dakota and portions of Missouri and eastern Kansas:

January 1 to December 1, 1916	$1,243,998,397
January 1 to December 1, 1915	857,190,100
January 1 to December 1, 1914	677,920,300
January 1 to December 1, 1913	798,117,500
January 1 to December 1, 1912	803,391,500
January 1 to December 1, 1911	735,283,813
January 1 to December 1, 1910	756,284,931

Contracts awarded throughout New York State and northern New Jersey:

January 1 to December 1, 1916	$255,381,500
January 1 to December 1, 1915	155,154,500
January 1 to December 1, 1914	121,598,000
January 1 to December 1, 1913	235,694,500
January 1 to December 1, 1912	211,282,500
January 1 to December 1, 1911	215,839,500
January 1 to December 1, 1910	233,081,000

These figures show that this is the largest year in contracts awarded which we have had since 1909, being $400,000,000 over 1915, which is the next largest year. In the smaller territory, being $15,000,000 over the next largest year, which was 1913. For November for the entire territory in this table, the contracts awarded amounted to $122,382,000, and for the smaller territory $30,275,000. These figures, while they are considerably lower than any of the previous months, still show a tremendous amount of construction work for this time of year. In the smaller territory the figures for November beat those of July by a small margin of about a million dollars, which is surprising, as July should be one of the largest months for construction we have.

IRON AND STEEL

Pig Iron—Below are the present quotations, with a comparison of a month and a year ago:

	Dec. 4, 1916	One Month Ago	One Year Ago
CINCINNATI			
No. 2 Southern foundry	$24.46	$18.90	$16.40
No. 2 Northern foundry	28.26	21.76	17.76
NEW YORK			
No. 2X Northern foundry	29.00	21.50	17.75
No. 2 plain Northern foundry	28.50	21.00	17.25
No. 2 Southern foundry†	28.00	21.50	18.25
BIRMINGHAM			
No. 2 Southern foundry	22.00	16.00	13.50
CHICAGO			
No. 2 Northern foundry	27.00	22.00	17.50
PITTSBURGH			
Bessemer iron*	34.45	24.95	17.95
Basic iron*	30.00	20.00	16.00

*These prices include the freight charge from the valley to the Pittsburgh district. †Delivered tidewater, New York.

Old Material—The prices following are per gross ton paid to dealers and producers in New York. In Chicago and St. Louis and vicinity, the quotations are per net ton and cover delivery at the buyer's works, including freight transfer charges:

	New York	
	Dec. 4, 1916	One Month Ago
Heavy melting steel scrap	$19.50@20.00	$12.25@12.50
No. 1 railroad wrought	22.50@23.00	20.25@20.50
Stove plate	15.50@16.00	12.00@12.50
No. 1 machinery cast	21.00@21.50	17.00@17.50
Machine shop turnings	9.00@ 9.50	6.25@ 6.50
Cast borings	10.00@10.50	8.00@ 8.25
Railroad malleable cast	17.50@18.00	12.00@12.50

	Chicago	
	Dec. 4, 1916	One Month Ago
No. 1 railroad wrought	$23.00@24.00	$18.00@18.50
Stove plate	12.75@13.25	10.75@11.25
No. 1 machinery cast	16.00@16.50	14.75@15.25
Machine shop turnings	8.50@ 9.00	6.00@ 6.50
Cast borings	7.75@ 8.25	7.25@ 7.75
Railroad malleable cast	17.00@17.50	13.50@14.00

	St. Louis	
	Dec. 4, 1916	One Month Ago
Heavy melting steel scrap	$22.00@22.50*	$18.50@19.00
No. 1 railroad wrought	20.00@20.50†	18.25@18.75
Stove plate	14.00@14.50†	11.50@12.00
No. 1 machinery cast	15.00@16.00†	13.25@13.75
Machine shop turnings	7.00@ 7.50†	6.00@ 6.25
Cast borings	7.00@ 7.50†	6.25@ 6.50
Railroad malleable cast	15.50@16.00†	13.00@13.50

*Gross ton. †Per net ton.

Steel Rails—The following quotations are per ton f.o.b. Pittsburgh and Chicago for carload or larger lots:

	Pittsburgh		Chicago	
	Dec. 4, 1916	Six Months Ago	Dec. 4, 1916	Six Months Ago
Standard bessemer rails	$38.00	$33.00	$38.00	$33.00
Standard openhearth rails	40.00	35.00	40.00	35.00
Light rails, 8 to 10 lb.	50.00	50.00	47.00	43.00
Light rails, 12 to 14 lb.	49.00	49.00	46.00	42.00
Light rails, 25 to 45 lb.	47.00	47.00	44.00	40.00

Triangle Mesh—Price per 100 sq.ft. for 4 in-mesh in carload lots:

Style No.	Cross-Sec. Area per Ft. Width	Plain: New York	Plain: St. Louis	Plain: Chicago	Plain: San Francisco	Galvanized: New York	Galvanized: St. Louis	Galvanized: San Francisco
4	0.102	$1.66	$1.76	$1.74	$2.06	$1.87	$1.97	$2.27
5	0.077	1.31	1.39	1.37	1.64	1.48	1.56	1.81
6	0.058	1.04	1.10	1.09	1.30	1.17	1.23	1.11
7	0.041	.81	.86	.85	1.01	.91	.96	1.43
23	0.170	2.77	2.94	2.91	3.49	3.13	3.30	3.82
24	0.142	2.39	2.54	2.51	2.98	2.70	2.85	3.28
25	0.124	2.12	2.25	2.22	2.65	2.39	2.52	2.92
26	0.110	1.93	2.05	2.02	2.41	2.18	2.30	2.65
27	0.085	1.58	1.68	1.66	1.97	1.78	1.88	2.17
28	0.066	1.31	1.39	1.37	1.63	1.48	1.56	1.79
29	0.049	1.08	1.15	1.13	1.35	1.22	1.29	1.49
31	0.261	4.08	4.33	4.28	5.11	4.61	4.86	5.62
32	0.225	3.54	3.76	3.71	4.43	4.00	4.22	4.88
33	0.196	3.16	3.35	3.31	3.95	3.57	3.76	4.35
34	0.140	2.43	2.58	2.55	3.03	2.74	2.89	3.34
35	0.109	1.93	2.05	2.02	2.41	2.18	2.30	2.65
36	0.075	1.42	1.51	1.49	1.78	1.61	1.70	1.96
38	0.380	5.81	6.17	6.10	7.28	6.57	6.93	8.01
39	0.325	5.01	5.32	5.26	6.26	5.66	5.97	6.88
40	0.283	4.39	4.66	4.61	5.49	4.96	5.23	6.04
41	0.208	3.35	3.56	3.51	4.19	3.78	3.99	4.62
42	0.151	2.54	2.70	2.66	3.18	2.87	3.03	3.50
43	0.101	1.81	1.92	1.90	2.26	2.04	2.15	2.49

Less than carload lots this material is about 10% higher.

Pipe—The following discounts are for carload lots f.o.b. Pittsburgh, in effect Dec. 4, 1916:

Steel: Inches	Black	Galvanized	Iron: Inches	Black	Galvanized
		Butt Weld			
¼ to 3	66%	52½%	¼ to 1½	58%	42%
		Lap Weld			
2	59%	46½%	1¼	44%	29%
2½ to 6	62%	49½%	1½	50%	36%
7 to 12	59%	45½%	2	51%	37%
13 and 14	49½%	....	2½ to 4	53%	40%
15	47%	....	4½ to 6	53%	40%
			7 to 12	52%	39%
		Butt Weld, Extra Strong Plain Ends			
¼ to 1½	64%	51½%	¼ to 1½	59%	44%
2 to 3	65%	52½%			
		Lap Weld, Extra Strong Plain Ends			
2	57%	45½%	1¼	46%	31%
2¼ to 4	60%	48½%	1½	51%	37%
4½ to 6	59%	47½%	2	53%	40%
7 to 8	55%	41½%	2¼ to 4	55%	43%
9 to 12	50%	36½%	4½ to 6	54%	42%
			7 to 8	48%	36%
			9 to 12	43%	31%

From warehouses at the places named the following discounts hold for steel pipe:

	Black: New York	Black: Chicago	Black: St. Louis
¼ to 3 in. butt welded	62%	62.8%	62.27%
3½ to 6 in. lap welded	57%	58.8%	58.27%
7 to 12 in. lap welded	50%	55.8%	58.27%
	Galvanized: New York	**Galvanized: Chicago**	**Galvanized: St. Louis**
¼ to 3 in. butt welded	46%	48.8%	48.27%
3½ to 6 in. lap welded	39%	45.8%	45.27%
7 to 12 in. lap welded	27%	41.8%	41.27%

Malleable fittings, Class B and C, from New York stock, sell at 30 and 5% from list price. Cast iron, standard size, 55%.

Rivets—The following quotations are per 100 lb.:

	Structural: Mill, Pittsburgh Dec. 4, 1916	Structural: Mill, Pittsburgh 3 Months Ago	Warehouse: New York	Warehouse: Chicago	Warehouse: St. Louis	Warehouse: San Francisco
¾ in. and larger	$4.25	$4.00	$5.25	$4.50	$4.55	$5.75
	Cone Head Boiler					
¾ in. and larger	4.35	4.10	5.35	4.60	4.65	5.85
⅝ and ⅞	4.50	4.25	5.50	4.75	4.80	6.00
½ and ⅝	4.85	4.60	5.85	5.10	5.15	6.35

Lengths shorter than 1 in. take an extra of 50c. Lengths between 1 in. and 2 in. take an extra of 25c.

Cast-Iron Pipe—The following are prices per net ton for carload lots:

	New York: Dec. 4, 1916	New York: One Month Ago	Birmingham	Chicago	St. Louis	San Francisco
4 in.	$42.50	$34.50	$37.00	$42.15	$41.00	$48.00
6 in. and over	39.50	31.50	34.00	39.15	38.00	45.00

Gas pipe and 16-ft. lengths are $1 per ton extra.

Nails—The following quotations are per keg from warehouse:

	New York	St. Louis	Chicago	San Francisco
Wire	$3.60	$3.50	$3.45	$3.80
Cut	3.60	3.20	3.60	4.05

Chain—Quotations below are per 100 lb.:

	New York Dec. 4, 1916	New York One Year Ago	Chicago	St. Louis	San Francisco
⅞	$10.35	$8.00	$10.25	$12.50	$13.50
¾	7.80	5.45	7.70	9.00	9.75
⅝	6.80	4.45	6.70	7.50	8.50
½	6.25	3.90	6.15	6.75	8.00
7/16	6.05	3.70	6.00	6.65	7.75
½ and ⅜	5.85	3.50	5.85	6.50	7.50
5/16 and ¼	5.75	3.40	5.75	6.40	7.25
¼ and 3/16	5.65	3.30	5.65	6.25	7.25
⅛ and 1/16	5.55	3.20	5.55	6.15	7.10
1 to 1¼	5.45	3.10	5.45	6.00	7.00

EXTRAS TO ABOVE LIST PER 100 LB.

	For BB	For BBB
⅞ in. and ¼ in.	$1.50	$2.00
⅞ in. and larger	1.25	1.75

Sheets—Quotations are in cents per pound in various cities from warehouse, also the base quotation from mill:

Blue Annealed	Large Lots, Pittsburgh	St. Louis	Chicago	San Francisco	New York Dec. 4, 1916	New York 6 Mos. Ago
No. 10	3.40@3.65	4.05	4.00	...	4.65	4.55
No. 12	3.40@3.65	4.10	4.05	...	4.70	4.50
No. 14	3.50@3.75	4.15	4.10	...	4.75	4.60
Black						
Nos. 18 and 20	3.80@4.05	4.55	4.40	5.73	4.80	3.45
Nos. 22 and 24	3.85@4.10	4.60	4.45	5.83	4.85	3.50
No. 26	3.90@4.15	4.65	4.50	5.96	4.90	3.55
No. 27	3.95@4.20	4.70	4.55	6.03	4.95	3.60
No. 28	4.00@4.25	4.75	4.60	6.13	5.00	3.65
Galvanized						
No. 10	4.50@5.00	6.50	5.20	6.40	5.95	4.60
No. 12	4.60@5.10	6.50	5.20	6.47	6.10	4.75
No. 14	4.60@5.10	6.50	5.20	6.47	6.25	4.90
Nos. 18 and 20	4.90@5.40	6.50	5.40	6.76	6.40	5.05
Nos. 22 and 24	5.05@5.55	6.50	5.55	6.91	6.55	5.20
No. 26	5.20@5.70	6.50	5.70	7.06	6.70	5.35
No. 27	5.25@5.75	6.50	5.85	7.20	6.85	5.50
No. 28	5.50@6.00	6.50	6.00	7.35	7.00	5.65

Bars, Concrete Reinforcing—The following quotations are per 100 lb.:

In.	Mill Shipment	Warehouse New York Dec. 4, 1916	Warehouse New York One Month Ago	Warehouse St. Louis	Warehouse Chicago	Warehouse San Francisco
¾ and larger	$2.90	$3.75	$3.35	$3.24	$3.60	$4.25
⅝	2.95	3.85	3.45	3.29	3.65	4.35
½	3.00	3.90	3.50	3.34	3.70	4.45
⅜	3.15	4.15	3.75	3.49	3.85	4.75
¼	3.40	4.50	4.10	3.74	4.10	5.25

Track Supplies—The following prices are base per 100 lb. f.o.b. Pittsburgh for carload lots, together with the warehouse prices at the places named:

	Mill, Pittsburgh Dec. 4, 1916	Mill, Pittsburgh One Year Ago	Chicago	St. Louis	San Francisco
Standard railroad spikes	$2.75	$2.00	$3.60	$3.30	$4.30
Track bolts	4.50	2.50	5.60	Premium	4.75
Standard section angle bars	2.00	1.50	3.95	Premium	4.50

Wire Rope—Discounts from list price on bright and galvanized are as follows:

	New York	St. Louis	Chicago	San Francisco
Galvanized	15-2½%	15-2½%	15-2½%	25%
Bright	25-2½%	25-2½%	20-2½%	15%

At this rate the net prices in New York for galvanized, 7 wires to strand, are as follows per 100 ft.:

Diameter, In.		Diameter, In.	
½	$4.40	1¼	$18.30
⅝	5.90	1⅜	20.80
¾	6.60	1½	25.60
⅞	9.50	1⅝	27.80
1	11.00	1¾	32.20

Structural Material—The following are the base prices f.o.b. mill, Pittsburgh, together with the quotations per 100 lb. from warehouses at the places named:

	Mill Pittsburgh	St. Louis	New York	Chicago	San Francisco
Beams, 3 to 15 in.	$3.00	$3.75	$3.75	$3.70	$4.50
Channels, 3 to 15 in.	3.00	3.75	3.75	3.70	4.50
Angles, 3 to 6 in., ¼ in. thick.	3.00	3.75	3.75	3.70	4.50
Tees, 3 in. and larger	3.00	3.75	3.75	3.75	4.50
Plates	3.50	4.65	4.75@5.00	4.35	5.00

Extras on other shapes and sizes in cents per lb. are as follows:

I-beams over 15 in.	.10
Angles over 6 in., on one or both legs	.10
Angles, 3 in. on one or both legs less than ¼ in. thick	.70
Cutting to lengths, under 3 ft. to 2 ft. inclusive	.25
Cutting to lengths, under 2 ft. to 1 ft. inclusive	.50
Cutting to lengths, under 1 ft.	1.55

No charge is made for cutting to lengths 3 ft. and over.

Freight Rates—On finished steel products in the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized wire nails, rivets, spikes, bolts, flat sheets (except planished), chains, etc., the following freight rates are effective in cents per 100 lb.:

Baltimore	15.40	Minneapolis	32.90
Boston	18.90	New Orleans	30.70
Buffalo	11.60	New York	16.90
Chicago	18.90	Pacific Coast (all rail)	65.00
Cincinnati	15.80	Philadelphia	15.90
Cleveland	10.50	St. Louis	23.60
Denver	68.60	St. Paul	32.90
Kansas City	43.60		

Expanded Metal Lath—Prices per 100 yd. for painted are as follows:

Gage	Weight	New York	Chicago	St. Louis	San Francisco
27	233	$18.00	$15.50	$18.00	$17.00
26	250	19.00	16.50	19.00	18.25
25	300	20.00	18.50	....	19.75
24	340	21.00	19.50	21.00	21.00
22	450	24.00	22.00	....	24.50

About 10% additional for smaller quantities. For galvanized add $1.0 and $4.50 for tuncan.

Steel Sheet Piling—The following price is base per 100 lb. f.o.b. Pittsburgh, with a comparison of a month and a year ago:

Dec. 4, 1916	One Month Ago	One Year Ago
$3.00	$2.60@2.70	$1.50@1.55

Rail Steel—Per 100 lb., St. Louis mills:

¾ in. and larger	$2.75	⅜ in.	$3.00
⅝ in.	2.80	¼ in.	3.25
½ in.	2.85		

CEMENT, BRICK AND STONE

Paving Stone

New York	Manhattan	$2.40	sq yd.
	Other boroughs	2.20	sq yd.
Chicago	About 4x8x4 dressed	2.15	sq yd.
	About 4x8x4 common	1.75	sq.yd.
San Francisco	Basalt block 4x7x8	57.75	per M

Flagging—

New York	Bronx	$0.17	sq.ft.
	Manhattan	.17	sq.ft.
	Queens, 5 ft. square	.18	sq.ft.
Chicago	18 in. wide	.60	lin.ft.

Curbing—Prices per linear foot are as follows:

New York	5x16	$0.40
	5x20	.45
Chicago	6x18	.45
St. Louis	5x16	.68
San Francisco	5x16	.75
	5x20	.85

Brick—The price per 1,000 in cargo or carload lots is as follows:

	Common	Paving Brick	Paving Block
New York	$9.50	$19.50	$26.50
Chicago	6.00	15.00	23.00
St. Louis, salmon	7.00	....	....
St. Louis, selected red	10.00	....	17.50
San Francisco	10.00	....	35.00

Portland Cement—These prices are for barrels in carload lots including bags:

	Dec. 4, 1916	One Month Ago	One Year Ago
New York	$1.87	$1.77	$1.67
Jersey City	1.80	1.70	1.61
Boston	2.02	1.92	1.82
Chicago	1.96	1.86	1.71
Pittsburgh	1.96	1.81	1.81
Cleveland	2.09	1.94	1.85
Detroit	2.05	1.95	1.86
Indianapolis	2.09	1.99	1.84
Toledo	2.09	1.99	1.94
Milwaukee	2.08	1.98	1.88
Minneapolis	2.23	2.13	1.98
Duluth	2.21	2.06	1.96
Peoria	2.08	1.98	1.79
Cedar Rapids	2.19	2.09	1.90
Davenport	2.14	2.04	1.80
St. Louis	1.95	1.85	....
San Francisco	2.30	2.30	2.30

Sand and Gravel—Price for cargo or carload lots is as follows:

	Gravel Paving	Gravel 1½ In.	Gravel ¾ In.	Sand	
New York	$1.25	$1.00	$1.10	$0.50	per cu.yd.
Chicago	1.25	1.00	1.00	1.00	per cu.yd.
St. Louis	....	.70	.70	.60	per cu.yd.
San Francisco	2.00	1.00	1.00	1.00	per cu.yd.

Crushed Stone—Price for cargo or carload lots is as follows:

	1½ In.	¾ In.
New York	$1.00@1.10	$1.10@1.25
Chicago	1.00	1.00
St. Louis	1.00	1.00
San Francisco	1.00	1.00

MISCELLANEOUS

Flue Lining—The following quotations are in cents per foot for carload lots at the places named:

	New York Dec. 4, 1916	New York One Year Ago	St. Louis	Chicago	San Francisco
4½x 8½ in.	$0.108	$0.066	$0.11	$0.12	$0.12
4½x13 in.	.144	.085	.15	.16	.18
8½x 8½ in.	.144	.085	.14	.16	.16
8½x13 in.	.216	.123	.18	.20	.22
8½x18 in.	.314	.17	.28	.32	.30
13 x18 in.	.276	.228	.40	.42	.40
18 x18 in.	.54	.38	.60	.55	....

Railway Ties—For fair-size orders, the following prices per tie hold:

	Material	7 In. by 9 In. by 8 Ft.	6 In. by 8 In by 8 Ft.
New York	Yellow Pine	$1.07	$0.92
St. Louis	No. 1 White Oak	.72	.61
Chicago	....	.95	.85
San Francisco	Green	.78	.53
San Francisco	Creosoted	1.39	.96

Sewer Pipe—The following prices are in cents per foot for carload lots:

Size, In.	New York Dec. 4, 1916	New York One Year Ago	St. Louis	Chicago	San Francisco
3	.0725	.05	.....	.0625	.06
4	.0725	.05	.....	.0625	.08
5	.12	.08	.....	.10	.10
6	.12	.08	.0825	.10	.12
8	.165	.11	.135	.1375	.18
10	.24	.16	.18	.20	.27
12	.30	.20	.245	.25	.3375
15	.405	.27	.35	.3375	.....
18	.57	.38	.525	.475	.675
20	.675	.45	.70	.5625	.875
22	.90	.60	.84	.75	$1.05
24	.975	.65	$1.00	.8125	1.25
27	$1.665	$1.35	1.30	....	.....
30	2.035	1.65	1.70	....	.....
33	2.625	2.187	2.25	....	.....
36	2.94	2.45	2.50	....	.....

Lumber—Price per M in carload lots:

Square Edge and Sound Green

Southern Pine—New York:

	20 Ft. and Under	22-24 Ft.	26 Ft.	28 Ft.	30 Ft.	32 Ft.
3x 4 to 8x 8.....	$28.00	$29.00	$30.00	$30.00	$31.00	$31.00
3x10 to 10x10.....	29.00	30.00	31.00	31.00	32.00	32.00
3x12 to 12x12.....	34.00	35.00	36.00	36.00	37.00	37.00
5x14 to 6x14.....	36.00	37.00	38.00	38.00	39.00	39.00
7x14 to 14x14.....	36.00	37.00	38.00	38.00	39.00	39.00
3x16 to 6x16.....	38.00	39.00	41.00	41.00	43.00	43.00
7x16 to 16x16.....	38.00	39.00	41.00	41.00	43.00	43.00
3x18 to 8x18.....	42.00	43.00	45.00	45.00	47.00	47.00
9x18 to 18x18.....	42.00	43.00	45.00	45.00	47.00	47.00
4x20 to 20x20.....	46.00	47.00	49.00	49.00	51.00	51.00

Southern Pine—Chicago:

3x 4 to 8x 8.....	26.00	27.00	28.00	28.00	29.00	29.00
3x10 to 10x10.....	27.00	29.00	29.00	29.00	30.00	30.00
3x12 to 12x12.....	31.00	32.00	33.00	33.00	34.00	34.00
3x14 to 6x14.....	33.00	34.00	35.00	35.00	36.00	36.00
7x14 to 14x14.....	33.00	34.00	35.00	35.00	36.00	36.00
3x16 to 6x16.....	35.00	36.00	38.00	38.00	40.00	40.00
7x16 to 16x16.....	35.00	36.00	38.00	38.00	40.00	40.00
3x18 to 8x18.....	39.00	40.00	42.00	42.00	44.00	44.00
9x18 to 18x18.....	39.00	40.00	42.00	42.00	44.00	44.00
4x20 to 20x20.....	43.00	45.00	45.00	46.00	48.00	48.00

Quotations from Lumberman's Bureau.

Yellow Pine—St. Louis:

	20 Ft.	22 and 24 Ft.	26 Ft.	28 Ft.	30 Ft.	32 Ft.
3x 4 to 8x 8.....	$21.00	$22.00	$23.00	$24.00	$25.00	$26.00
3x10 to 10x10.....	22.00	23.00	24.00	25.00	26.00	27.00
3x12 to 12x12.....	23.50	24.50	25.50	26.50	27.50	28.50
3x14 to 6x14.....	25.00	26.00	27.00	28.00	29.00	30.00
7x14 to 14x14.....	25.00	26.00	27.00	28.00	29.00	30.00
3x16 to 6x16.....	27.00	28.00	29.00	30.00	31.00	32.00
7x16 to 16x16.....	27.00	28.00	29.00	30.00	31.00	32.00
3x18 to 8x18.....	29.00	30.00	31.00	32.00	33.00	34.00
8x18 to 18x18.....	29.00	30.00	31.00	32.00	33.00	34.00
4x20 to 20x20.....	33.00	34.00	35.00	36.00	37.00	38.00

Over 32 ft.—Add $1 for each additional 2 ft. in length up to 40 ft. for sizes 12x12 and under; for sizes over 12x12 add $2. For merchantable add $2 to sizes 10x10 and under. For prime add $2 to the price of merchantable for all sizes.

Rough Douglas Fir, No. 1 Common—More than carload lots in San Francisco:

Size in Inches	15 Ft. and Under	16 to 24 Ft.	25 to 32 Ft.
3 and 4x4	$15.00	$16.50	$17.50
3 and 4x6 and 8	15.00	15.50	16.50
6x6 to 8x8	15.50	16.50	16.50
3 and 4x10	15.00	16.50	17.50
6 and 8x10	16.00	17.00	17.00
10x10	16.00	16.00	18.00
3 and 4x12	15.00	16.50	17.50
6 and 8x12	16.50	17.50	17.50
10 and 12x12	16.00	16.00	18.00
3 and 4x14	16.00	18.00	19.00
6 and 8x14	17.50	18.50	18.50
7 and 9x14	18.50	19.50	19.50
10 and 12x14	17.00	17.00	19.00
14x14	16.00	16.00	18.00
3 and 4x16	17.00	19.50	20.50
6 and 8x16	19.00	20.00	20.00
7 and 9x16	20.00	21.00	21.00
10 and 12x16	18.00	18.00	20.00
14 and 16x16	16.00	16.00	18.00
3 and 4x18	18.00	21.00	23.00
6 and 8x18	19.50	22.00	22.00
7 and 9x18	20.50	23.00	23.00
10 and 12x18	19.00	19.00	21.00
14 and 16x18	17.00	17.00	19.00
18x18	18.00	18.00	20.00
3 and 4x20	20.00	22.50	24.50
6 and 8x20	21.50	24.00	24.00
10 and 12x20	20.00	20.00	22.00
14 and 16x20	18.00	18.00	20.00
18 and 20x20	19.00	19.00	21.00

Poles—Price of Western red cedar poles is as follows:

	New York	Chicago	Denver	St. Louis
6 in. by 30 ft.	$4.99	$4.34	$3.72	$4.34
7 in. by 30 ft.	5.90	5.10	4.30	5.10
7 in. by 45 ft.	8.45	7.35	6.30	7.35
8 in. by 35 ft.	9.95	8.65	7.40	8.65
7 in. by 40 ft.	10.10	8.75	7.50	8.75
8 in. by 40 ft.	11.35	9.65	8.15	9.65
8 in. by 45 ft.	14.45	12.45	10.55	12.45
8 in. by 50 ft.	16.85	14.45	12.15	14.45

Clay Drain Tile—The following prices are per 1,000 lin ft.:

Size, In.	New York Dec. 4, 1916	New York One Year Ago	St. Louis	Chicago	San Francisco
3	$23.00	$22.50	$16.00	$15.00	$24.50
4	32.45	32.50	18.00	18.00	31.50
5	45.00	47.50	25.00	23.00	45.50
6	56.55	57.50	35.00	27.00	63.00
8	98.50	97.50	65.00	55.00	105.00

Hollow Tile—Hollow building tile price per block in cents:

	New York	Chicago	St. Louis	San Francisco
4x12x12 in.	.09	.064	.054	.07
6x12x12 in.	.126	.092	.066	.095
8x12x12 in.	.153	.108	.098	.12
10x12x12 in.	.18	.127	.15	.18
12x12x12 in.	.225	.146	.18	.20

Fireproof partition blocks price per block in cents:

2x12x12 in.	.076	.043	...	.055
3x12x12 in.	.076	.044	...	.065
4x12x12 in.	.086	.047	...	.07
6x12x12 in.	.114	.064	...	.095
8x12x12 in.	.152	.085	...	.12

Above prices are for carload lots or more.

Asphaltum—Price per ton in packages:

	Brand	
New York	Mexican	$19.50
Chicago	Mexican	22.00
San Francisco	California	12.50

Rosendale Cement—Price to dealers for 500 bbl. or over, f.o.b., including bags:

New York	$0.90

30c. allowed for bags.

Wood Block Paving—

Chicago	4 in. block	16 lb. treatment	$2.05 sq.yd.
St. Louis	4 in. block	16 lb. treatment	1.46 sq.yd.

Linseed Oil—These prices are per gallon:

	New York Dec. 4, 1916	New York Six Months Ago	Cleveland Dec. 4, 1916	Cleveland Six Months Ago	Chicago Dec. 4, 1916	Chicago Six Months Ago
Raw in barrels	$0.98	$0.72	$1.05	$0.73	$1.03	$0.75
5-gal. cans	1.08	.82	1.15	.83	1.13	.85

Boiled, 1c. per gal. additional.

White and Red Lead, in cents per pound, as follows:

	Red Dec. 4, 1916 Dry	Red Dec. 4, 1916 In Oil	Red 6 Months Ago Dry	Red 6 Months Ago In Oil	White Dec. 4, 1916 Dry and In Oil	White 6 Months Ago Dry and In Oil
100-lb. keg	10.50	11.00	10.50	11.00	10.50	10.50
25- and 50-lb. kegs	10.75	11.25	10.75	11.25	10.75	10.75
12½-lb. keg	11.00	11.50	11.00	11.50	11.00	11.00
1- to 5-lb. cans	12.50	12.50	12.50	12.50	12.50	12.50

MISCELLANEOUS METALS

Miscellaneous Metals—The present quotations in cents per pound with a comparison of practically a month and a year ago are as follows:

	New York Dec. 4, 1916	New York One Month Ago	New York One Year Ago
Copper, electrolytic (carload lots)	35.00	29.00	20.00
Tin	45.50	41.75	38.50
Lead	7.25	7.00	5.25
Spelter	12.75	10.50	17.50
ST. LOUIS			
Lead	....	7.00	....
Spelter	....	10.50	....

Old Metals—The following are the dealers' purchasing prices in cents per pound:

	New York Dec. 4, 1916	New York One Year Ago	Cleveland Dec. 4, 1916	Cleveland Six Months Ago
Copper, heavy and crucible	27.50	16.50	29.00	25.00
Copper, heavy and wire	26.50	16.00	28.50	24.00
Copper, light and bottoms	23.00	14.00	25.00	20.00
Lead, heavy	6.10	4.50	6.25	6.00
Lead, tea	5.50	4.25	5.00	5.00
Brass, heavy	15.50	11.50	17.00	19.00
Brass, light	13.00	9.50	13.00	12.50
No. 1 yellow rod brass turnings	16.50	12.00	15.50	14.50
Zinc	8.50	12.00	9.00	12.00

The Westinghouse Electric and Manufacturing Co., Pittsburgh, Penn., announces an extension of its present bonus system to include salaried and office employees on hourly rates, by which they will receive a bonus of 8% of their salaries each month providing their total excusable time absent and late during the month does not exceed 6 hr. in not over three occasions. An additional 4% will be given each month to the employee who has not lost any time from work during the month through absence or tardiness, thus enabling those affected to obtain an increase in earnings of 12% for a 100% attendance.

Capt. W. S. Warner, 100-2 Lafayette St., Tampa, plans to build an 8,000-ton seagoing barge which will be used as a floating plant to gather and convert the immense masses of seaweed of the Sargasso Sea into potash. He would like to receive estimates on the cost of construction materials for this barge and fertilizer plant, such as concrete and reinforcing steel, and also mechanical equipment.

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

Maine—Lewiston, Augusta & Waterville St. Ry. plans to extend line from Lewiston to Rumford. A. H. Ford, Portland, Gen. Mgr.

Pennsylvania—Cambria & Indiana R.R. making surveys for line from Nant-y-Glo to Revloc, about 6 mi. S. H. Jenks, Ebensburg, Ch. Engr.

Pennsylvania—Denver & Ephrata Ry. granted charter for electric railway from Ephrata to Denver. H. S. Dissler, Ephrata, Pres.

Md., Hagerstown—Hagerstown & Frederick Railway Co. plans to extend line from Hagerstown. M. A. Pooler, Frederick, Gen. Mgr.

West Virginia—A. S. Hecker, Pittsburgh, Penn., and H. E. De Jarnette, Princeton, applied for franchise to construct steam, electric or horsepower railway from Princeton to Athens, about 5 or 6 mi.

South Carolina—Carolina Rapid Transit Co., Clinton, made surveys electric railway from Spartanburg to Clinton. R. Tull, Spartanburg, Ch. Engr. Noted Feb. 3.

Mississippi—Fernwood & Gulf Railroad Co. plans line from Kokomo to Columbia, about 12 mi. W. D. Hurt, Fernwood, Ch. Engr.

Mississippi—Meridian & Deepwater Ry. to build line from Meridian east to Myrtlewood, Ala., about 47 mi., to connect with Louisville & Nashville R.R. S. A. Neville, Meridian, Pres.

Louisiana—Natches, Urania & Ruston Railway Co. plans line from Castor to Olla, about 4 mi., next year. H. E. Hardtner, Urania, Pres. and Gen. Mgr.

Tennessee—Tennessee Ry. plans line from Indian Creek to Morgan County line, 4¼ mi. T. F. Whittelsey, Oneida, Gen. Mgr.

Kentucky—Cumberland & Manchester R.R. plans line from Garrards to Big Double Creek, about 20 mi. C. F. Heidrick, Barbourville, Gen. Mgr.

Kentucky—Mobray-Robinson Lumber Co., Cincinnati, interested in railway from point on Louisville & Nashville R.R., Perry County, up middle fork Kentucky River, Leslie County, about 25 mi. Surveys now being made. Address H. C. Williams, Ch. Engr. Constr., Louisville & Nashville R.R., Louisville.

Ohio—O. A. Charles, Tiffin, interested in electric railway from Toledo to Tiffin and Marion.

Ohio—Council granted franchise to Columbus Railway, Power and Light Co. to double-track line on East 11th Ave. from 4th St. to Field Ave. E. K. Stewart, 14-16 North High St., Columbus, Ch. Engr.

Ohio—Ohio Electric Ry., Cincinnati, plans to extend North 4th St. car line, Newark, to northwestern part of city. A. Benham, Interurban Bldg., Springfield, Gen. Mgr.

Michigan—Grand Rapids, Grand Haven & Muskegon Ry., Grand Rapids, plans to double-track line, first 10 mi. to be built next year and 3 mi. each year thereafter until line is completed. W. K. Moreley, Grand Rapids, Gen. Mgr.

Illinois—Chicago & Alton R.R. plans to double-track line from Roodhouse to Kansas City, Mo. H. T. Douglas, Jr., Transportation Bldg., Chicago, Ch. Engr.

Illinois—Tampico, Loraine & Western Railway Co., Springfield, recently incorporated with $255,000 capital stock, plans line from Tampico to point near west line of Henry County. D. J. Evans and R. J. Kerr, interested.

Minnesota—Duluth St. Ry. plans to extend car line from Duluth to Proctor. H. Warren, Duluth, Gen. Mgr.

Arkansas—Pine Bluff & Northern Ry. plans line from Fletcher to Pine Bluff, about 35 mi. J. K. Riffle, Southern Trust Bldg., Little Rock, Receiver.

Wyoming—Union Pacific R.R. made plans for completing double-tracking of line through Wyoming. Plans include enlarging Sherman Hill Tunnel west of Cheyenne, double-tracking 33 mi. from Archer to Pine Bluff and 36 mi. west of Cheyenne. About $4,000,000. R. L. Huntley, Omaha, Neb., Ch. Engr.

Missouri—Chicago, Burlington & Quincy Ry. applied to Pub. Ser. Comn. of Missouri for permission to build line from Monroe City to Moberly, about 40 mi. W. L. Breckenridge, Chicago, Ch. Engr.

Missouri—Kansas City Terminal Railway Co. plans line from Kansas City, Mo., to Kansas City, Kan., about 4 mi. J. V. Hanna, Kansas City, Mo., Ch. Engr.

Missouri—Ozark Valley Ry. plans line from Cascade to Buckhorn, about 4 mi. C. A. Long, Williamsville, Gen. Mgr.

Texas—Bryan & Central Texas Interurban Ry. plans line from Whittaker to Wilcox, about 7 mi., next year. L. M. Levenson, Bryan, Gen. Mgr.

Idaho—Chicago, Milwaukee & St. Paul Ry. secured right-of-way extension to Clearwater timber belt from Elk River, Lewiston. C. F. Loweth, Chicago, Ch. Engr.

Oregon—Oregon Electric Ry. plans steam line from Albany to timber belt near Cascadia. A. M. Lupfer, 848 Pittock Blk., Portland, Ch. Engr.

California—Tidewater Southern Railway Co. plans to extend branch of Stockton-Modesto line to Manteca. J. H. Wallace, Stockton, Ch. Engr.

Quebec—Canada & Gulf Terminal Ry. plans line from Mantane to Gaspe Basin, 250 mi. E. L. Holloway, Mantane, Ch. Engr.

Manitoba—Winnipeg Electric Ry., Winnipeg, plans line to Transcona. W. Phillips, Winnipeg, Gen. Mgr.

Alberta—Peace River, Mackenzie & Copper Mine River Ry. applied to Parliament for certificate of incorporation to build railway from Sawbridge on Edmonton, Dunvegan & British Columbia Ry. to Vermillion via east end of Losser Slave Lake to Bellrock on Great Slave River, about 500 mi.

Bids In and Contracts Awarded

New York—Buffalo & Depew Ry. to build line from Depew to Lancaster next year by company forces. W. L. Upson, Depew, Gen. Mgr. and Ch. Engr., M. W. Noted Nov. 16.

Pennsylvania—Pennsylvania RR. let contract grading and masonry work at Morrisville yards to H. S. KERBAUGH, INC., 6 Church St., New York. Noted Oct. 26.

D. C., Washington—Capitol Traction Co. making plans double-tracking line south on 18th St. to C St. to relieve congestion at 15th St. and New York Ave. Plans include terminal loop around triangle between 18th and C St. and Virginia Ave. About $100,000. Work to be done by day labor. J. Fleming, 36th and M St., N. W., Washington, Pur. Agt. Noted Oct. 26.

Oklahoma—Kansas & Oklahoma Southern Railway Co. let contract line from Caney to Ft. Smith, Ark., 165 mi., to S. STEPHENSON SONS & CO., New Haven, Conn., who have sublet work to RAILROAD CONSTRUCTION CO., 1 Union Sq., New York.

LIGHT, HEAT AND POWER

Proposed Work

Vt., Salisbury—Addison Electric Co. making plans hydro-electric plant.

R. I., Pawtucket—Jencks Spinning Co. plans 100x100-ft., brick power plant on Weedon St.

Penn., Annville—H. E. Millard plans electric power plant.

Va., Shenandoah—City voted to enlarge and extend electric-light plant.

Fla., Lake Butler—City voted $10,000 bonds for building electric-light plant. B. M. Wilson, Mayor. Noted Oct. 19.

Ky., Glasgow—Kentucky Utilities Co. purchased site, plans central power plant. H. Reid ,Lexington, Pres.

Ohio, Belpre—Council granted Kanawha Traction and Electric Co., Parkersburg, W. Va., franchise to install electric-light and power plant in Belpre.

Ohio, Elyria—Elyria Memorial Hospital receiving bids Dec. 15 1-story power plant. About $5,000. P. Rissman, Eyiria Bldg., Arch.

Ohio, Radnor—Bd. Education, Radnor School Dist., receiving bids Dec. 9 transmission line and transformer station for centralized school buildings. R. W. Jones, Clk.

Ohio, St. Marys—City voted $60,000 bonds for extending and improving municipal electric-light plant.

Ohio, Warren—Trumbull Public Service Co. plans to remodel its plant.

Mich., Escanaba—City plans extending electric-lighting system.

Ill., Allendale—City plans electric-light plant. A. Greathouse, West Salem, interested.

Ill., Lovington—City plans improving electric-light plant.

Ill., Winthrop Harbor—Village Bd. making plans electric-light system.

Wis., Portage—Southern Wisconsin Power Co., First National Bank Bldg., Milwaukee, making plans power plant in Portage. Woodmansee & Davidson, 208 South La Salle St., Chicago, Ill., Engr.

Wis., Windsor—Wisconsin Power Co. granted franchise to build transmission line.

Iowa, Bloomfield—City plans improving electric-light plant. About $25,000.

Iowa, Delhi—Bd. Railroad Comrs. of Iowa granted franchise to Iowa Electric Co. to build electric transmission line from Delhi to Oneida and Worthington.

Iowa, Elma—Consumers Electric Co. plans extending transmission line from Elma to Riceville.

Iowa, Spencer—(Official)—City receiving bids Dec. 18, electric-light and power plant. C. J. O'Keefe, City Clk. (See adv.)

Iowa, Webster City—City plans improving electric-light and water plants.

Minn., Askove—City plans electric-light system.

Minn., New Ulm—City plans extending electric-lighting system.

Minn., Virginia—Great Northern Power Co. plans addition to plant, and 66,000-volt transmission line from Thomson to Virginia.

Kan., Moran—City receiving bids Dec. 18 electric-light plant. About $12,000. W. F. Young, City Clk. Noted Nov. 30.

Kan., Mullinville—City plans transmission line and distribution system. About $10,000. R. Culley, City Clk.

Kan., Munden—City making preliminary plans electric-light plant. W. H. Stenad, City Clk. Noted Nov. 16.

Neb., Fremont—City plans improving electric-light plant. About $20,000. C. R. De La Matyr, City Clk.

Wyo., Meeteetse—G. A. Reding, Meeteetse plans electric-light system.

Mo., Kirkwood—City plans improving electric-light plant. About $8,000.

Mo., Trenton—Trenton Gas and Electric Co. plans 75 mi., 26,000 volt transmission line.

Tex., Forney—Texas Light and Power Co. plans extending its power-transmission line; also street-lighting system. E. Oram, Elec. Engr.

Tex., Gustine—W. T. Ball, Comanche, plans electric-light system in Gustine.

Tex., Houston—Houston Light and Power Co. plans enlarging its light and power plant.

Tex., Nordheim—Texas Southern Electric Co. plans extending power transmission line; also electric-light system.

Tex., Streetman—Corsicana Gas and Electric Co. applied to Council for franchise to install electric light and power plant. J. Carpenter, Gen. Mgr.

Tex., Valley View—Motion Picture Theater plans electric-light plant. A. Jones, Mgr.

Okla., Morrison—City soon to vote on $7,000 bonds for installing electric-lighting system.

Okla., Mounds—City plans electric-light plant.

Idaho, Boise—State Utilities Comn. granted E. Goodman permission to install electric-light plant on Fayette River.

Utah, Brigham—City plans voting on $10,000 bonds for rebuilding electric-light plant.

Wash., Cashmere—Council made plans, and soon votes on $50,000 bonds for building hydro-electric power plant on Wenatchee River. O. M. Carter, Supt. Water and Light Dept.

Ont., Hawkesbury—Riordon Pulp and Paper Co. plans addition to boiler house in Hawkesbury, Ont., not in Hawkesbury, Vt., as noted in issue of Nov. 23.

Bids In and Contracts Awarded

Mass., Fall River—Ancona Co. let contract 1-story, 24x25-ft. addition to boiler house to BEATTIE & CONELL, 33 North Quarry St., $4,100.

Mass., Springfield—W. Carter Co. let contract 1-story, 60x60-ft. boiler house to E. T. DAVIS & SON CO., 120 Broadway, New York. Noted Oct. 26.

N. J., New Brunswick—Middlesex County rejected bids power house and electric-light plant. A. Merchant, 363 George St., Arch.

Penn., Polk—State Institute for Feeble Minded let contract boiler house and power plant to C. F. HAMILTON, INC., Franklin, $33,217.

Calif., Terra Bella—Terra Bella Irrigation Dist. let contract power-lines, transformer stations, etc., to CITY ELECTRIC SUPPLY CO., Riverside, $44,400.

BRIDGES

Proposed Work

Mass., Franklin—Milford, Attleboro & Woonsocket St. Railway Co., 500 Main St., Springfield, soon receives bids bridge. H. C. Page, Worcester, Gen. Mgr.

Conn., New Britain—City plans 2 bridges across west canal. W. H. Hall, City Engr.

N. Y., Bennington—(Official)—City defeated $7,500 bonds to build bridge and highway. Noted Oct. 26.

N. Y., Highland—Ulster County plans bridge. Address County Clk., Kingston.

N. J., Camden—United New Jersey Railroad and Canal Co., operated by Pennsylvania R.R., made plans trestle and bridge from 36th St., Camden, to Petty's Island. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

N. J., Newark—Bd. Freeholders Essex County soon receive bids concrete bridge with steel beams over Second River on Mt. Prospect Ave. About $30,000. F. A. Reimer, Court House, Hackensack, Engr. Noted Nov. 23.

Penn., Baden—Beaver County plans bridge over Ohio River between Baden and Woodlawn. Address County Clk., Baden.

Penn., Clearfield—Clearfield County plans concrete bridge over Sandy Creek. Address County Clk., Clearfield.

Penn., Coudersport—State Water Comn. approved plans concrete bridges in Potter County, over Whites Corner and North Fork.

Penn., Erie—State Water Comrs. approved plans concrete bridge over Pine Run on Elgin Rd. Address County Clk., Erie.

Penn., Oil City—Pennsylvania R.R. plans bridge for Buffalo-Pittsburgh Division. About $2,000,000. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

Penn., Reading—Berks County making plans rein.-con. bridge over Willow Creek near Barkley; also new bridge over Swamp Creek in Colebrookdale, north New Berlinville. E. Ulrich, Reading, County Engr.

Va., Portsmouth—Com. of Rds. and Bridges, Norfolk County, plans to repair West Norfolk Bridge. About $6,000. Address Clk., Portsmouth.

Va., Richmond—Atlantic Coast Line Ry. plans concrete arch bridge in connection with freight terminal improvement. J. E. Willoughby, Wilmington, N. C., Ch. Engr.

Bridges (Continued)

W. Va., Huntington—Cabell County Court receiving bids Jan. 4 superstructure of Four Pole Bridge. About $50,000. Oliver & Maupin, Huntington, County Engr.

Fla., Clearwater—Pinellas County plans election to vote on $70,000 bonds to build bridge over Boca Ceiga Bay. Address County Clk., Clearwater.

Fla., Tampa—Tampa & St. Petersburg Ry. made plans concrete railway and toll bridge with two 1,000-ft. archways over Old Tampa Bay. About $1,000,000. F. M. Williams, 410½ Franklin St., Tampa, interested. Noted July 20.

Ala., Clayton—Barbour County Comrs. plans 2 bridges across Pea River. Address County Clk., Clayton.

Ky., Barbourville — (Official) — Fiscal Court, Knox County, receiving bids Dec. 9, superstructure bridge over Big Richland Creek. G. G. Fetter Co., Louisville, Engr.

Ky., Barbourville — (Official) — Fiscal Court, Knox County, receiving bids Dec. 9, bridge over Stinking Creek. G. G. Fetter Co., Louisville, Engr.

Ohio, Columbus—City approved $1,500,000 bonds to build bridges over Scioto River.

Ohio, Dayton—Montgomery County receiving bids Dec. 18 west approach to Bridge No. 174 over Great Miami River known as West Carrollton Bridge, over Great Miami River. W. H. Azsling, Dayton, Clk. Noted Nov. 9.

Ohio, Franklin—Warren County receiving bids Dec. 11 bridge over Miami and Erie Canal on 6th St. M. E. Ross, Lebanon, County Clk. Noted Nov. 9.

Ohio, New Philadelphia—Tuscarawas County plans bridge at East Center St., repairing bridge over Beaver Dam Creek on Beaver Ave., bridge over Sugarcreek on intercounty road No. 414.

Ohio, Youngstown—City plans $5,000 bond issue to build bridge and viaduct repair. F. M. Lillie, City Engr.

Ohio, Youngstown—Mahoning County voted bonds to build bridge at Youngstown, and Coitsville Township voted to build bridge and fill over Dry Run. Address County Clk., Youngstown.

Ind., Ft. Wayne—Allen County receiving bids Dec. 27, 3-span rein.-con. arch bridge over St. Joseph River. About $65,000. A. W. Grosvenor, 408 Bass Blk., Engr.

Ill., Geneva—Kane County soon lets contract bridge on Main St. About $40,000. G. N. Lamb, Geneva, County Supt. Highways.

Ill., Momence—Kankakee County plans concrete bridge over north branch river at Momence. F. M. Enos, Kankakee, Supt. Highways.

Ill., Rockford—Coosa County receiving bids Dec. 11 2 concrete bridges. L. Thomas, Rockford, Judge Probate.

Wis., Dodgeville—Com. on Rds. and Bridges recommended that $12,935 be spent for bridge work next year.

Wis., Rice Lake—City voted to build bridge over Red Cedar River on Main St. J. H. A. Brantz, Mankato, Minn., Consult. Engr. Noted Nov. 2.

Iowa, Atlantic—Cass County making plans three 32-ft. and two 24-ft. I-beam span bridges and 2 rein.-con. box culverts. H. S. Williams, Atlantic, County Engr.

Iowa, Hampton—Franklin County making plans 5 bridges. A. G. Baker, Hampton, County Engr.

Iowa, Sioux City—Woodbury County plans bridges and culverts in Arlington, Banner, Concord, Floyd, Moville and Woodbury Townships. E. E. Hosmer, Sioux City, County Audr.

Iowa, Storm Lake—Buena Vista County making plans 60-ft. and 130-ft. truss span bridges, also concrete deck girder span and concrete box culvert. G. K. McCullough, Storm Lake, Engr.

Minn., Albany—Great Northern & Soo R.R. plans steel bridge. About $80,000. A. H. Hogeland, St. Paul, Ch. Engr.

Minn., Bemidji—Beltrami County receiving bids Dec. 8 40 bridges over Ditch No. 36, about $12,476; 40 over Ditch No. 30, about $13,529; 15 over Ditch No. 31, about $4,143. T. Swinson, Bemidji, Engr.

Minn., Duluth—St. Louis County appropriated $49,000 bridge over St. Louis River between Duluth and Fond du Lac. Address County Clk., Duluth. Noted Aug. 10.

Neb., Scotts Bluff—Scotts Bluff County sold $65,000 bonds to build bridges. Noted Nov. 2.

N. D., Grafton—See item under "Streets and Roads."

Mont., Hardin—Big Horn County voted $37,000 to build bridge over Big Horn River. J. E. Graham, Hardin, County Engr. Noted Nov. 2.

Mo., Carrollton—(Official)—Carroll County defeated $100,000 bonds to build bridges. Address County Clk., Carrollton. Noted Oct. 12.

Mo., Joplin—City plans 1,300-ft. viaduct on East 7th St. J. J. McAfee, City Engr.

Mo., St. Charles—Citizens of St. Charles and St. Louis plan bridge across Misouri River between 2 cities. E. R. Kinsey, Pres. Bd. Pub. Ser., St. Louis.

Mo., Unionville—(Official)—Putnam County defeated $100,000 bonds to build bridges. Address County Clk., Unionville. Noted Nov. 23.

Mo., Webb City—City plans 2,100-ft. viaduct on East Daugher St. L. E. Briggs, City Engr.

Ark., Eureka Springs—Rd. Comrs. Carroll County, Dist. No. 1, plan 350-ft. steel bridge over White River. E. M. Bare, Eureka Springs, Secy.

Tex., Ballinger—Citizens northwestern part Runnels County petitioned Comrs. Court to build bridge over Colorado River. Address County Clk., Ballinger.

Tex., Laredo—Webb County receiving bids Dec. 15 steel bridge across Santa Isabel River. J. A. Rodriguez, Laredo, County Clk.

Tex., Port Arthur—Comrs. Court, Jefferson County, soon lets contract bridge over Alligator Bayou. About $6,000.

Tex., San Angelo—Tom Green County appropriated $8,000 for bridge or viaduct over North Concho River, South Irving St. Address County Clk., San Angelo.

Okla., McAlester—(Official)—Pittsburgh County Comrs. plan election in July to vote on bonds to build bridge across South Canadian River, near Canadian and Eufaila. Noted Nov. 16.

Okla., Pryor—Mayes County plans 2 approaches to free bridge over Grand River. Address County Clk., Pryor.

Okla., Tahlequah—Cherokee County soon to vote on $100,000 bonds to build roads and bridges. Address County Clk., Tahlequah. Noted Nov. 23.

Wash., Seattle—King County receiving bids Dec. 12 Brisack Bridge over Snoqualmie River south North Bend. Proposed bridge to be 102 ft. long, 20 ft. wide, Howe truss. About $9,000,000. Address County Clk., Seattle.

Ore., Baker—City making plans steel bridge over Powder River on Center St. L. R. Stockman, City Engr.

Calif., Los Angeles—Los Angeles County appropriated $5,000 as share of cost of Ivanhoe Bridge over Los Angeles River. City to bear remaining cost. H. Hamlin, City Engr.

Calif., San Diego—City defeated $50,000 bonds to build bridge over San Diego River. Noted Aug. 31.

Ont., Port Arthur—Council plans bridge over McIntyre River. T. F. Milne, Clk.

Ont., St. Thomas—Michigan Central Ry. plans rein.-con. bridges at Muncey and Alvinston. About $65,000. G. H. Webb, Detroit, Ch. Engr.

Bids In and Contracts Awarded

N. H., Woodsville—Haverhill County let contract bridge between Woodsville, N. H., and Wells River, Vt., to UNITED CONSTRUCTION CO., 24 James St., Albany, N. Y. Noted Mar. 30.

N. Y., New York—(Manhattan)—(Official)—P. T. Cox Contracting Co., Tribune Bldg., $104,806, low bidder improving southerly portion Manhattan Bridge.

Penn., Johnstown—Council let contract concrete bridge over Stony River between 8th and 7th Wards to HACKEDORN CONSTRUCTION CO., Indianapolis. Noted Sept. 28.

Fla., Clearwater—Pinellas County let contract bridge over Anclote River to CONVERSE BRIDGE AND STEEL CO., Chattanooga, about $10,018. Noted Sept. 21.

Fla., Tarpon Springs—Pinellas County let contract bridge over Anclote River to CONVERSE BRIDGE AND STEEL CO., Chattanooga, about $26,538. Noted Oct. 5.

Ga., Bainbridge—Decatur County to build bridge over Flint River by convict labor. Noted Nov. 30.

Ohio, Wapakoneta—Auglaize County rejected bids for Wetstone Bridge, Logan Township, and Crow Bridge, Moulton Township. Noted Aug. 17.

Ohio, Youngstown—H. B. Reinsayer, Principal Asst. Engr., New York Central R.R., relet contract bridge over railway tracks on East Federal St. and Himrod Ave. to CARMICHAEL-CRYDER CO., International Life Bldg., St. Louis, Mo., $124,384. Noted Nov. 23.

Ind., Terre Haute—County received low bid McKeen Bridge, M. & P. Construction Co., Hatfield, $4,254; Altekruse Bridge, Carpenter Construction Co., Terre Haute, $10,600; Ferguson Bridge, Crabb & Landine, Sullivan, $8,984.

Iowa, Fairfield—Bd. Supervs., Jefferson County, let contract Merrimac Bridge to OTTUMWA SUPPLY AND CONSTRUCTION CO., Ottumwa, $19,999. Noted Nov. 16.

Minn., Breckenridge—Wilkin County let contract 4 bridges to GREAT NORTHERN BRIDGE CO., 635 Lumber Exchange, Minneapolis. Noted Apr. 13.

Mo., Kansas City—(Official)—Bd. Park Comrs. let contract concrete bridge over Blue River on 71st St., Swope Park, to HORTON CONCRETE CONSTRUCTION CO., 520 Reliance Bldg., Kansas City, $144,943. Noted Oct. 26.

Mo., St. Charles—Kelly-Adkinson, Chicago, Ill., submitted low bid bridge across Mississippi River. About $200,000. Hedrick & Hedrick, Kansas City, Engr. Noted Oct. 19.

Okla., Claremore—(Official)—Rogers County let contract steel bridge to MISSOURI VALLEY BRIDGE AND IRON WORKS, Leavenworth. About $21,000. Noted Oct. 19.

Okla., Frederick—Tillman County let contract bridges to J. T. HIGHTOWER.

Wash., Seattle—Bd. Pub. Wks. received bids rein.-con. approach to Freeman Ave. bridge over Lake Union from Graff & Sheldon, Tacoma, $19,305, and Pacific States Construction Co., Seattle, $29,816. F. A. Rapp, Bridge Engr.

Ore., Eugene—Lane County let contract bridge in Acme to WOODWARD & DYER, [illegible]100.

Calif., Merced—Bd. Supervs., Merced County, let contract bridge No. 47, on Middle Rd. over San Luis Creek, to W. H. McELROY, Merced, $5,360.

WATER-WORKS

Proposed Work

Mass., Gloucester—City plans water-works. J. W. Moran, Supt.

Mass., Lowell—City plans 8-in. water main in Stedman, Lafayette and Bernlee St. R. J. Thomas, Supt.

Mass., Pittsfield—City plans reservoir. J. Wise, Supt.

N. Y., Canton—City voted $180,000 bonds to build gravity system at water-works. L. R. Smith, Supt. Noted Nov. 23.

N. Y., New York—(Bronx)—(Official)—W. Williams, Comr. Water-Supply, Gas and Electricity, Municipal Bldg., Manhattan, receiving bids Dec. 11, water mains in West 170th St. and Merriam Ave.

N. Y., New York—(Manhattan)—(Official)—W. Williams, Comr. Water-Supply, Gas and Electricity, Municipal Bldg., Manhattan, receiving bids Dec. 11, water mains in 5th and 6th Ave. and East 38th St.

N. J., Bayonne—City plans reservoir and pumping plant, also mains in various streets. Tribus & Massa, 86 Warren St., New York, Engr.

Penn., Germantown—(Philadelphia post office)—Council plans water mains in portion Ogontz Ave.

Penn., Johnstown—Morrellville and Cambria Water Co. plans filter plant, at F St. and Chandler Ave. W. H. C. Ramsey, Supt.

W. Va., Cameron—City plans election to vote on $60,000 bonds, $25,000 to be used to extend water mains. L. R. Lowe, Supt.

N. C., Clayton—City receiving bids Dec. 15 for 650 ft. 6-in. and 2,000 ft. 8-in. c.-i. pipe, hydrants and valves. T. M. White, Supt. Water and Light Dept.

N. C., Wilmington—City plans to extend water mains. About $6,000. D. L. Struthers, City Engr.

S. C., Chesterfield—Commercial Club interested in project to install water-works.

S. C., Clover—City voted $30,000 bonds to build water-works.

La., Houma—City voted bonds to install water system. L. A. Tucker, Supt.

Tenn., Rogersville—City sold $25,000 bonds to build water-works. Noted Nov. 2.

Ohio, Marietta—City plans to improve water system. W. M. Morse, Supt.

Ohio, Sandusky—Comrs. passed ordinance, water mains in Lane and Sycamore Line St., also approved plans, sewer in Railroad St. N. Cronewett, Supt.

Ill., Park Ridge—(Official)—Bd. Local Impvts. receiving bids Dec. 12 water mains and sewer system.

Ill., Watseka—Council plans drilling well. J. L. Smiley, Comr.

Wis., Green Bay—City plans $35,000 bond issue for installation of water-works. J. P. Flatly, Supt.

Wis., New Richmond—City plans bond issue to build water-works. E. Halverston, Supt.

Iowa, Mapleton—Water Comn. soon receives bids, well.

Iowa, Ossian—City to vote Dec. 11 on $8,000 bonds extending water system.

Iowa, Sioux City—City plans extending water mains. About $40,000 or $45,000. P. Carlin, Supt.

Iowa, Stuart—(Official)—City receiving bids Dec. 12 39,000 ft. c.-i. pipe and extending water system. T. S. DeLat, Creston, Civil Engr.

Iowa, Webster—See item under "Light, Heat and Power."

Minn., Goodhue—City receiving bids Dec. 18 for sale of bonds to build water-works. O. E. Kyllo, Village Clk.

Minn., Minneapolis—City plans water main from filtration plant to river. About $300,000. J. A. Jenson, Supt.

Neb., Benson—Citizens voted to build water system. B. J. Viola, Benson, Engr. C. H. Hollestelle, City Clk.

Neb., Bristow—City voted bonds to extend water system.

S. D., Arlington—City sold $10,000 bonds to build water-works. R. W. Nash, Supt.

Mont., Wilsall—City plans water system.

Mo., Richmond—City plans to extend water mains and install new filter plant. Election in spring to vote on $20,000 bonds for work. J. L. Farris, Jr., Mayor.

Water-Works (Continued)

Tex., Higgins—City voted $20,000 bonds to install water system. Noted Oct. 26.

Okla., Beggs—City sold $42,000 bonds to install water system. Noted Nov. 16.

Okla., Kendall—City plans election to vote on $45,000 bonds to install water-works. Noted May 25.

Okla., Tulsa—F. Newkirk, City Audr., receiving bids Dec. 18 filter plant. Stevens & Stiles, 222 Commercial Trust Bldg., Kansas City, Mo., Engr. Noted Nov. 30.

Idaho, Rexburg—City plans water pipe line from Moody Creek to Rexburg. P. O. Thompson, Supt.

Utah, Midvale—City voted $35,000 bonds to build water-works.

Wash., Everett—Snohomish County receiving bids Dec. 11, pumping plant and water system for tuberculosis hospital. Address County Clk., Snohomish.

Wash., Monroe—State Bd. Control, Olympia, approved plans water system at State Reformatory. About $88,000.

Wash., Wenatchee—City plans filter plant. About $25,000 or $30,000. C. T. White, Comr.

Calif., Corcoran—Corcoran Water and Gas Co. soon to let contract, 50,000-gal. steel tank and pumping machinery. About $10,000. W. R. Mayer, Supt. Noted Nov. 9.

Calif., Sacramento—City to vote on $4,500,000 or $6,000,000 bonds to build filter plant. F. C. Miller, City Engr. Noted June 15.

Calif., San Diego—City voted $682,000 bonds to build pipe line from Otay dam site to Bonita "Y." M. M. O'Shaughnessy, 2732 Vallego St., San Francisco, Engr. H. R. Fay, Supt. Noted Oct. 19.

Calif., Seal Beach—Election Dec. 21 to vote on $30,000 bonds to install water system.

Calif., Sunnyvale—City voted $15,000 bonds to build water-works. Noted Nov. 30.

N. S., Dartmouth—Council plans water and sewer system. About $6,800. W. L. Bishop, Supt.

Que., Chicoutimi—P. Laberge plans water system. J. A. Cleaveau, Engr.

Ont., Hamilton—Council plans 20,000,000-gal. reservoir. About $601,660. J. Bauer, Supt.

Ont., Sandwich—Council plans water mains and sewer. About $20,457 and $23,122 respectively. E. R. North, Clk.

Ont., Springfield—Central Pipe Line Co. plans 3-in. pipe line from Richmond to Springfield and additional wells in Richmond Dist. F. Rand, Aylmer, Mgr.

Bids In and Contracts Awarded

Mass., Swampscott—City let contract trenching for water pipes on Shaw Estate, Arbutus, Aspen, Stimpson and Sargent Rd. to L. MARINO.

N. Y., Rensslaer—Bayer Bros. Co. let contract filter plant to FEENEY & SHEEHAN BUILDING CO., 165 Montgomery St., Albany, $5,000.

N. Y., Rome—(Official)—City to install water mains in Francis St. by day labor. Noted Nov. 23.

Md., Jessups—Maryland House of Correction to install water system by day labor. About $40,000.

Ohio, Ironton—City let contract filter plant to MODERN CONSTRUCTION CO. Bonds for $375,000 voted for work. Noted Aug. 10.

Ill., Bloomington—Bd. Local Impvts. received no bids for 6-in. c.-i. water mains on Front, East, Prairie and Yale St. Noted Oct. 26.

Iowa, Sioux City—City let contract well to A. C. SAVAGE, $15,000.

Minn., Duluth—City received low bid, Lakewood Pumping Station, from Jacobson Bros., 410 Columbia Bldg. Noted Nov. 23.

Minn., Ironton—City let contract extending water mains to PASTORET CONSTRUCTION CO., Duluth.

Minn., Winthrop—City let contract sewer system, 75,000-gal. tank, tower and pumping station to GAYLORD HARDWARE CO., Winthrop, $45,490.

Mont., Troy—Council let contract water system to W. L. GEIST, St. Maries, Idaho, $12,765.

Tex., Hamilton—City let contract water system to W. E. HENDERSON, Sweetwater, $31,400.

Idaho, Lewiston—(Official)—City let contract 2 turbine pumps to FAIRBANKS-MORSE and WESTINGHOUSE CO., Spokane, Wash., $5,302. Noted Nov. 16.

Calif., San Raefael—Marin Municipal Water Dist. received low bid, tunnel under Pine Mountain, from McLeran & Peterson, Sharon Bldg., San Francisco, $257,400. Noted Nov. 16.

SEWERS

Proposed Work

Mass., Reading—Town voted $100,000 to install sewer system. F. A. Barbour, 73 Tremont St., Boston, Engr. Noted Aug. 31.

N. J., Union—(Official)—Bd. Comrs. Union Township, Odd Fellows' Hall, 505 Valley Brook Ave., Lyndhurst, receiving bids Dec. 11 for completing sewage disposal works. T. F. Bowe, East Rutherford. Engr. (See adv).

Penn., Connellsville—State Comn. of Health authorized city to install disposal plant. C. F. Hirst, City Engr.

Penn., Dubois—City plans sewage-works. About $75,000. M. H. Matthes, Land Title Bldg., Philadelphia, Engr.

Penn., Lebanon—(Official)—City soon receives bids sanitary and storm sewers and disposal plant. P. A. Volcker, City Engr. Noted Mar. 23.

Ga., Cairo—(Official)—City postponed election to vote on $28,000 bonds to build sewers. Noted Nov. 9.

Ohio, Amherst—Village voted to install sanitary sewer system in West Martin Ave. and West Side. Noted Nov. 9.

Ohio, Sandusky—See item under "Water-Works."

Ohio, Tiffin—Bd. Pub. Ser. soon receives bids, North Sandusky St. Sewer.

Ind., Brazil—(Official)—City plans disposal plant. F. C. Wilson, City Engr.

Ind., Indianapolis—Bd. Pub. Wks. passed resolutions, sewers in Arsenal Ave., 28th and 30th St., about $4,350. B. J. T. Jeup, City Engr.

Mich., Muskegon—City making preliminary plans, sewer. P. Grimes, City Engr.

Ill., Park Ridge—See item under "Water-Works."

Wis., Racine—Street Com. plans extending sewer system. About $4[illegible]000. P. H Connolly, City Engr.

Iowa, Rockwell City—Council receiving bids Feb. 5, disposal plant. About $10,000. F. E. Burnham, City Engr. Noted Nov. 16.

Iowa, Sioux City—City plans extending sewer system.

Iowa, Stuart—(Official)—City receiving bids Dec. 12, sewer system, outlet and disposal plant.

Minn., Duluth—City plans sewers in portions Jefferson and Halifax St. A Ayers, City Engr.

Minn., Eveleth—City plans 14,000 ft. 16-in. sewers.

Kan., Sedan—Council receiving bids Dec. 12 for sewers, disposal plant and laterals in Dists. Nos. 3 and 4. E. T. Archer & Co., New England Bldg., Kansas City, Consult. Engr.

Mo., Higginsville—(Official)—City rejected bids, sewer system and disposal plant. New bids. Noted Oct. 19.

Mo., Hillsboro—City Comrs. authorized plans made, sewer system.

Tex., Ballinger—City making plans improvements and addition to sewer system.

Tex., Dallas—City rejected bids, storm sewer in San Jacinto St. New bids. H. Moseley, City Engr.

Tex., Lockhart—City sold $35,000 bonds to build sewer system and disposal plant. H. E. Elrod, Dallas, Consult. Engr. Noted Nov. 23.

Tex., Victoria—Dallas Lime and Gravel Co., Dallas, made plans, disposal plant. About $35,000. P. Trevino, Victoria, Engr.

Okla., Kendall—City soon votes on $50,000 bonds to build sewers.

Idaho, Moscow—City plans to issue $50,000 bonds to extend sewer system. About $50,000. Noted Nov. 9.

Idaho, Orofino—Bd. Trustees passed ordinance, sewer system in Dist. No. 1. I. B. W. Kinne, Village Clk.

Idaho, Pocatello—City receiving bids Dec. 16, sanitary sewers in Lateral Dist. No. 11. J. H. Giles, City Engr.

Utah, Ogden—City soon receives bids, storm sewer, in portion Madison Ave. About $30,000. J. M. Tracy, City Engr.

Utah, Salt Lake City—City Comn. soon receives bids, outlet to sewer system. About $60,000.

Nev., Minden—Dangeberg Land and Livestock Co. plans sanitary sewer system and disposal plant.

Wash., Seattle—Bd. Pub. Wks. made plans, sewers in West and North 45th St About $16,000. A. H. Dimock, City Engr.

Ore., Portland—Council receiving bids Dec. 13 Tanner Creek Sewer. About $250,000. P. H. Dater, City Engr. Noted Oct. 26.

Calif., Hermosa Beach—(Official)—City Trustees rejected bids for disposal and treatment plant. New bids in January. Noted Nov. 2.

N. S., Dartmouth—See item under "Water-Works."

Ont., Ford—Town making plans sewer system. About $112,915. T. A. Murray, 303 Lumsden Bldg., Toronto, Engr. Noted Nov. 30.

Ont., Hamilton—Council soon receives bids, sewer in Rosslyn Ave. About $33,000. E. R. Gray, City Engr.

Ont., Toronto—Bd. Control receiving bids Jan. 16, centrifugal sewer pump, 40,000,000-gal., at pumping station. T. L. Church, Chn. Bd

Ont., St. Catherines—City making plans sewer in East End. W. P. Neal, City Engr.

B. C., Vancouver—City soon lets contract sewer in west end section. About $100,000.

Bids In and Contracts Awarded

Mass., West Springfield—Town to build sewer system in Tatham Dist. by day labor.

N. Y., New York—(Queens)—(Official)—M. E. Connolly, Boro. Pres., Long Island City, received low bids Dec. 1, sewers in portions streets as follows: (a) Grand Ave., (b) Nott Ave., (c) Hull Ave., (d) Forest Parkway, (e) Kimball Ave., (f) Maure Ave., (g) Ridgewood Ave., (h) Benedict Ave., (i) Hatch St., (j) Jamaica Ave., (k) Robinson Ave., from E. W. Fitzpatrick, 128 3rd Ave., (a) $23,766; A. Decker, (b) $44,318; Ajax Dredging and Contracting Corp., (c) $70,334; J. H. Johnson, (d) $9,963; (e) $8,622; (h) $7,238; (i) $9,853; J. C. Schrade, 20 Main St., (f) $68,822; Peace Bros., (g) $5,897; (j) $8,892; Green Contracting Co., (k) $11,858. Noted Nov. 23.

Penn., Meadville—City to let contract sanitary sewers in Morgan, Miller and Pine St. to KEYSTONE CONSTRUCTION CO., 926 Diamond Sq., Meadville.

Penn., Pen Argyle—Lehigh & New England Railroad Co., Philadelphia, let contract disposal plant to RICHARDSON CONSTRUCTION CO., Connell Bldg., Wilkes-Barre. About $12,000.

Penn., Winton—(Official)—Borough let contract sanitary sewer to D. LAWLER, Olyphant, $4,580. Noted Nov. 23.

Ohio, Canton—Dept. Pub. Ser. let contract 1,055 ft. 12- and 24-in. vitrified sewer pipe, manholes and catch basins in 2nd St. to WISE BROS., $21,076.

Ohio, Lorain—(Official)—City let contract sewers in several streets to C. D. COLE, $5,000; RANDALL & COOPER, $5,000. Noted Oct. 26.

Ohio, Toledo—City let contract Sanitary Sewer No. 1308 to G. A. GESSNER CO., 815 Nicholas Bldg., Toledo. About $40,830.

Ohio, West Park—(Official)—City received low bid, storm and sanitary sewers, from Monson Co., 345 The Arcade, Cleveland, $18,667, $92,730. Noted Nov. 23.

Ind., Evansville—City let contract sewer to EVANSVILLE PLUMBING CO., 1026 West Franklin St., Evansville.

Ind., Kokomo—City let contract Loretta St. and Virginia Ave. to O. B. PETERS, Kokomo, $4,674. Noted May 4.

Ill., Cuba—City let contract sewer system to E. H. HARDIN, Racine, Wis. About $25,000.

Wis., Milwaukee—Dept. Pub. Wks. received low bids, portion Richards St. Sewer, from G. E. Zimmerman and J. B. Forestal. Noted Nov. 9.

Iowa, Clinton—City let contract sewer to T. CAREY & SON, Clinton.

Minn., Duluth—(Official)—City to install sewers, portion 6th Alley and 101st St., by day labor. Noted Nov. 23.

Minn., Red Wing—(Official)—City to install sewer in Buchanan St. by day labor. Noted Nov. 23.

Neb., Red Cloud—(Official)—City let contract sewers to ELKHORN CONSTRUCTION CO., Fremont, $20,882.

Mo., Kansas City—City let contract sewer in Dist. No. 348, Div. No. 4, to W. C. MULLINS, 1230 Montgall, $83,613.

Tex., Seymour—(Official)—City let contract sewer system and disposal plant to JAMES CONTRACTING CO., Guthrie, Okla., $24,500. Noted Oct. 5.

Calif., Long Beach—City received low bids, pumps for Sewer Dist. No. 3, from Tomich & Jaeger, 553 Pacific St., $37,000; S. M. Kerns, 322 Temple St., $39,000; J. Ukropina, 705 Bernardo St., Los Angeles, $41,000. Noted Nov. 2.

Calif., San Francisco—Bd. Pub. Wks. let contract sewer in Glen Park to K. EHRHART, 660 Market St., $6,500.

Ont., London—Council to install sanitary sewers in William St. by day labor. About $5,000.

Ont., Toronto—Bd. Control let contract sewers to FUSSELL-McREYNOLDS CO., Ltd., 2014 St. Clair Ave., W., $37,250.

B. C., Vancouver—Council let contract disposal plant to H. PETERSON, Clark St., Vancouver, $98,000.

GARBAGE

Proposed Work

N. Y., New York—(Manhattan)—(Official)—Bd. Trustees, Bellevue Hospital, receiving bids Dec. 12, extension to destructor building and power house, at Harlem Hospital, 136th St. and Lenox Ave. J. W. Brannan, M. D., Pres. Bd.

N. Y., Rochester—Council adopted ordinance removal snow and ice during season 1916-17. Work to be done under supervision Comr. Pub. Wks. H. W. Pierce. About $90,000.

Ky., Louisville—Civic organizations considering garbage plant. D. R. Lyman, City Engr. J. H. Buschemeyer, Mayor.

Ohio, Elyria—Council plans combined garbage reduction and sewage disposal plant. C. M. Theobald, City Engr.

Ohio, Warren—City plans new system collecting and disposing garbage. E. L. King, Dir. Pub. Ser.

Ill., Berwyn—City receives bids about Jan. 1, incinerator. About $12,000. Lewis, Capron Co., 900 South Michigan Ave., Chicago, Engr. Noted Oct. 12.

Ill., Chicago—Citizens defeated $2,000,000 bonds disposal of garbage and ashes and to build plants. Noted Oct. 26.

Garbage (Continued)

Calif., Alameda—F. P. Smith, of Consolidated Ser. Co., made proposition to Council to pay city $53,000 for 20-year franchise to collect garbage; also that company will establish reduction plant on Bay Island Farm and garbage to be collected by motor vehicles.

Calif., Marysville—Bd. Health recommended Council install new system collecting and disposing of garbage.

Bids In and Contracts Awarded

Tex., Ballinger—(Official)—City let contract incinerator to STOKES INCINERATOR CO. About $3,500. Noted Nov. 23.

Calif., San Francisco—(Official)—City received low bids garbage disposal from R. Schmidt, at 20c. per ton, and A. B. Moffitt, 22½c. per ton. M. M. O'Shaughnessy, City Engr. F J. Churchill, Secy. Bd. Pub. Wks.

Ont., New Toronto—Council let contract incinerator to REED PRODUCTS CO., Standard Bldg., about $10,000.

STREETS AND ROADS

Proposed Work

Mass., Holyoke—City plans new street between High and Railroad St. T. J. McCarthy, City Engr.

Mass., Lynn—Council voted $30,000 bonds, $15,000 to pave Commercial St and $15,000 to pave Western Ave. and Floating Bridge. W. L. Vennard, City Engr.

Mass., New Bedford—Council approprited $53,000 for improving highways. G. N. Nye, City Engr.

R. I., Warwick—Town voted $16,000 bonds to build roads. J. T. Lockwood, Apponang, Town Clk.

Conn., Hartford—City plans to widen and pave Park St. R. N. Clark, City Engr.

Conn., Wallingford—City has $18,000 available for paving next year. W. A. McKenzie, City Engr.

N. Y., Brook Haven—Town plans to spend $77,417 to build roads in 1917. C. E. Dean, Supt. Highways.

N. Y., Watervliet—Bd. Estimate and Apportionment plans to issue $300,000 bonds for paving.

N. J., Camden—City making plans paving Chase and South 8th St. and Ephraim Ave., asphalt; also resurfacing Market St. asphalt. I. E. Farnham, City Engr.

N. J., Clifton—Bd. Freeholders Passaic County plan to improve Main St., Acquackanonck Township Pub. Ser. Corp., Newark, to bear part cost. Address County Clk., Paterson.

N. J., Cranford—City voted $15,000 bonds to improve roads.

N. J., Linden—City voted $20,000 bonds to improve roads.

N. J., Newark—Bd. Freeholders Essex County plan to pave Fairview Ave., about $20,000; Grove St., $10,000; South Orange Ave., $15,000; Hobart Gap, $10,000; Roseland St., $10,000. F. A. Reimer, Newark, County Engr.

N. J., Newark—Bd. Street and Water Comrs. receiving bids Dec. 14 improving portions 4th and North 2nd St. M. R. Sherrard, City Engr.

N. J., New Brunswick—Middlesex County to receive $75,000 from state automobile funds repair of roads. E. A. Stevens, Trenton, State Rd. Comr. Noted May 18.

N. J., Rutherford—Town Comn. appropriated $12,867 for improving portion Park Ave. R. M. Watson, City Engr.

N. J., Sussex—Bd. Freeholders, Sussex County, sold $25,000 bonds to improve roads.

N. J., West Orange—Town plans to improve Valley Rd., Main St. and Ashland Ave. Mead & Taylor, Engr.

Penn., Clifton Heights—Borough voted $70,000 bonds. Part proceeds to be used for paving streets.

Penn., Pittsburgh—City plans to pave and curb Eureka St., about $12,500, and Smith Way, about $13,000. R. Swan, City Engr.

Penn., Wilkes-Barre—City soon to let contract extending portion Elizabeth St. B. K. Finch, City Engr.

Penn., Wilkes-Barre—Council passed ordinance improving portion Brook St. B. K Finch, City Engr.

Va., Charlotteville—Albemarle County plans highway from Nortonsville to Charlotteville, including bridge over Lynch River. Address J. M. Frye, Charlotteville.

W. Va., New Cumberland—Hancock County, Poe Dist., sold $40,000 bonds to build roads. Contract to be let in March. C. E. Grafton, New Cumberland, County Engr. Noted Apr. 6.

W. Va., New Cumberland—Hancock County, Grant Dist., sold $125,000 bonds to improve roads Contract to be let in March. Address County Clk., New Cumberland. Noted May 18.

W. Va., New Cumberland—Hancock County, Clay Dist., sold $40,000 bonds to build roads. Contract to be let in March. Address County Clk., New Cumberland. Noted May 18.

W. Va., Welch—(Official)—McDowell County Court receiving bids Dec. 15, grading, surfacing, draining and bridges on 36 mi. Public Rd. in Sandy River Dist. W. W. White, Clk. (See adv.)

N. C., Newland—Avery County appropriated $12,000 road from Edgemont to Carolina & Northwestern R R. through Cragg Settlement. Address County Clk., Newland.

N. C., Wilmington—City plans to improve portions Water, Nutt and Front St. About $30,000. D L. Struthers, City Engr.

Fla., Ft. Myers—Lee County, Special Rd. and Bridge Dist. No. 5, voted $190,000 bonds to build 42½ mi. roads. Address County Clk., Ft. Myers. Noted Oct. 19.

Fla., Jacksonville—Council plans paving, concrete, portions Laura, Forsyth and Hogan St.

Ala., Gadsden—City sold $35,000 bonds paving streets. Contracts soon to be let. E. Smith, Engr.

Miss., Ackerman—Bd. Supervs., Choctaw County, sold $25,000 bonds to build roads Address County Clk., Ackerman. Noted Aug. 10.

Miss., Brookhaven—Bd. Supervs., Lincoln County, sold $95,000 bonds to build roads in Dist. No. 4 and $80,000 in Dist. No. 2.

La., Monroe—Bd. Superv., Quachita County, Dist. No. 1, receiving bids Dec. 18, improving Monroe-Columbia and Monroe-Millhaven Rd. Address County Clk., Monroe.

La., New Orleans—City plans paving, creosoted wood block. About $750,000. W. J. Hardee, City Engr.

Tenn., Fayetteville—Lincoln County plans to hard-surface Jackson Highway from Wells Hill to Alabama line. About $1,000 per mile. Address County Clk., Fayetteville.

Tenn., Knoxville—City plans to curb and gutter various streets in 4 new districts. J. E. McMillan, Mayor. Noted Aug. 17.

Ky., Owensboro—(Official)—Davies County Fiscal Court receiving bids Dec. 12, Letchfield Rd. R. Wiley, Comr. Pub. Rd. Noted Nov. 16.

Ky., Owensboro—(Official)—Davies County Fiscal Court receiving bids Dec. 12, St. Joseph, Hawesville and Rockport Rd. R. Wiley, Comr. Pub. Rd.

Ohio, Bellaire—Council authorized plans made paving Crescent, 29th and Guerney St. A. J. Morton, City Engr.

Ohio, Cincinnati—Hamilton County plans improving Asbury Rd. About $18,000. W. Boeh, Cincinnati, County Surv.

Ohio, Cincinnati—City soon receives bids improving portion Eastern Ave., granite block, also laying 12-in. water mains and cement walks. About $197,139. F. S. Krug, City Engr. Noted Sept. 28.

Ohio, Columbus—L. A. Olcott, Member of Council, recommended $500,000 bond issue paving and widening North High and 4th St. and Main and Cleveland Ave. H. Maetzel, City Engr.

Ohio, Crooksville—Citizens voted $9,000 bonds to improve streets.

Ohio, Kent—(Official)—City receives bids in spring paving Lake, Columbus, Summit and Park St., about 10,000 sq.yd. brick, asphalt or concrete, and 18,000 ft. stone curb. E. S. Royer, City Engr. Noted Sept. 14.

Ohio, Marion—Marion County plans to spend about $140,000 new roads next year. W. E. Weston, Marion, County Surv.

Ohio, Martins Ferry—City plans to repave Belmont and Guernsey St.

Ohio, Mt. Vernon—Knox County plans to improve road between Mt. Vernon and Howard. Address County Clk., Mt. Vernon.

Ohio, New Bremen—City plans to pave Main, Franklin and Pearl St. G. Champ, The Nasby, Toledo, Engr.

Ohio, Shaker Heights—(Cleveland post office)—City receiving bids Dec. 19, improving portion Kemper Rd. C. A. Palmer, Clk.

Ind., Balbec—Jay County plans to pave road from Balbec to line between Jay and Wells Counties, also road between Union St., Pennville, and Balbec. Address County Clk., Balbec.

Ind., Goshen—Elkhart County plans to improve 2 mi. Middlebury Rd., brick. W. Gillette, Goshen, Surv.

Ind., Terre Haute—City received no bids paving streets Nov. 22. Work postponed until spring. F. A. Rattman, City Engr.

Ind., Topeka—Lagrange County plans 5-mi. gravel road between Topeka and Emma. Address County Clk., Topeka.

Mich., Flint—City plans paving. About $52,000. E. C. Shoecraft, City Engr.

Mich., Flint—Genesee County plans to build gravel roads. About $1,000,000. G. McVannell, Flint, County Engr. Noted Nov. 30.

Mich., Grand Rapids—City plans to issue $324,000 bonds to improve streets and build sewers. W. S. Moore, City Engr.

Mich., Laurium—Township Highway Officials plan concrete highway between Red Jacket and Laurium. G. Martin, Clk.

Mich., St. Johns—Clinton County defeated $200,000 bonds to build roads. Address County Clk., St. Johns. Noted May 11.

Ill., Benton—City making plans hard roads in West Frankfort, and Denning Townships. A. C. Powell, Engr.

Ill., Chicago—Business men and residents of north and west side and city officials favor plan of Chicago Plan Comn. to extend Ogden Ave. from Union Park northeast to Lincoln Park. About $4,000,000. J. Ericson, City Engr.

Ill., Freeport—Stephenson County defeated $850,000 bonds to build roads. Address County Clk., Freeport. Noted Nov. 2.

Ill., Gillespie—Town making plans paving, curbing and guttering Main St. About $27,000. A. S. Morse, Carlinville, Engr. Noted Sept. 14.

Ill., Grayville—City making plans paving 8 mi. streets. G. W. Coulter, Mt. Carmel, Engr.

Ill., Kankakee—Kankakee County to vote Jan. 14 on $750,000 bonds to improve roads. Address County Clk., Kankakee. Noted Feb. 24.

Ill., Urbana—City to let contract in spring 30 blocks paving. A. M. Doneley, City Engr.

Wis., Augusta—Eau Claire County plans election in spring to vote on $750,000 bonds to build roads. Address County Clk., Eau Claire.

Wis., Baraboo—Sauk County appropriated $12,000 road near Greenfield. S. H. Wood, Baraboo, County Audr.

Wis., Chilton—City appropriated $500,000 to build trunk roads. J. Roell, City Clk.

Wis., Dodgeville—Com. on Rds. and Bridges recommended that $14,336 be spent for road work next year.

Wis., Eau Claire—Eau Claire County voted $750,000 bonds to build roads. Address County Clk. Noted Nov. 9.

Wis., Fond du Lac—City receiving bids Jan. 1 cement and concrete paving. About $19,835. J. S. McCullough, City Engr.

Wis., Mondovi—Buffalo County election Dec. 21 to vote on $14,000 bonds to build roads. H. B. Pace, Alma, County Clk.

Wis., New London—City receiving bids in December paving portion Wyman St., concrete. T. R. Roberts, Court House, Green Bay, Engr. Noted Nov. 30.

Wis., Rhinelander—Oneida County plans to spend about $43,000 road work next year. J. Verage, Rhinelander, County Clk.

Iowa, Algona—(Official)—City receiving bids Jan. 11 40,000 sq-yd. paving, 40,000 lin.ft. curb and gutter. T. S. Delay, Creston, Consult. Engr Noted Oct. 26.

Iowa, Harlan—Council defeated proposition paving 51 blocks.

Iowa, Rock Rapids—Lyon County soon receives bids 16 mi. road. About $70,000. E. J. Riegel, Rock Rapids, Audr.

Iowa, Tracer—City plans paving streets.

Minn., Bagley—Clearwater County appropriated $10,000 and State Highway Comn. will contribute like amount for road work. H. K. Rude, Bagley, Audr.

Minn., Long Prairie—Todd County plans to spend $25,000 roadwork next year. E. M. Berg, County Audr.

Minn., Princeton—Mille Lacs County voted $75,000 to build roads. W. C. Doane, Princeton, Audr Noted Nov. 2.

Kan., Chanute—City soon receives bids macadamizing roads. C. Pratt, City Engr.

Kan., Clay Center—Council passed ordinance paving various streets. About $43,000. Address County Clk., Clay Center.

Kan., Columbus—Council passed resolution paving 12 blocks and 3 alleys.

Kan., Ft. Scott—(Official)—Bourbon County receiving bids Dec. 18, 11½ mi macadam on Pawnee Rd. and 7½ mi. on Walktertown Rd. E. E. Toles, Court House, Engr. Noted Nov. 16.

Kan., Topeka—W. S. Gearhart, State Engr., making surveys hard-surface highway between Topeka and Kansas City.

S. D., Huron—City soon receives bids improving portion 4th St. asphalt or concrete. J. B. Sullivan, City Engr.

N. D., Grafton—Walsh County plans to spend $14,000 road and bridge work next year. W. C. Treuman, Grafton, Audr.

Wyo., Cody—Park County Comrs. soon receive bids for road through Shoshone Canyon. Address County Clk., Cody.

Mont., Butte—City receiving bids Dec. 20 improving Montana St., 26,856 sq.yd. paving, 7,066 lin.ft. gutter, 300 lin.ft. curb and gutter, 4,165 lin.ft. 10-in. vitrified or cement sewer pipe, 12 manholes with covers and 18 catch-basins with covers. J. J. Armstrong, City Engr. Noted July 20.

Mo., Kansas City—City plans improving Oak St. About $700,000. C. Hill, City Engr.

Ark., Augusta—State Highway Comn. soon to let contract, highway between Augusta and Fitzhugh. About $53,000.

Ark., Forrest City—City approved plans paving about 6 mi. streets, asphalt or macadam, about $40,000. Lund & Hill, Little Rock, Engr. Noted Sept. 28.

Tex., Columbus—Colorado County election Jan. 16 to vote on $100,000 bonds to build road through county 3 to 8 mi. wide from Wharton County line east of Eagle Lake to Fayette County line west Welmer. Address County Clk., Columbus.

Tex., Corpus Christi—City plans 24,000 sq.yd. paving on Leopard and Staples St.

Tex., Daingerfield—Morris County, Rd. Dist. No. 1, approved $20,000 bond issue to build roads.

Tex., Dallas—City Comrs. authorized paving portion Maple Ave. and Cedar Springs Rd. Bids soon. H. Moseley, City Engr.

Streets and Roads (Continued)

Tex., Dallas—Comrs. plan improving portion Sanger Ave. About $20,000. H. Moseley, City Engr.

Tex., Denton—Denton County votes Dec. 21 on $1,000,000 bonds to build roads. Address County Clk., Denton. Noted Nov. 30.

Tex., Ft. Worth—City Comn. soon lets contract paving portion East Terrell Ave., bitulithic. About $46,000. F. J. Von Zuben, City Engr. Noted Nov. 30.

Tex., Galveston—City receiving bids Dec. 18, brick paving and sidewalks on seawall boulevard. A. T. Dickey, City Engr. Noted Nov. 23.

Tex., Kerens—Kerens Independent Rd. Dist. voted $150,000 bonds to build roads.

Tex., Lockhart—Caldwell County, Delhi Dist., voted $5,000 bonds to improve roads. Address County Clk., Lockhart.

Tex., Plainview—City plans paving streets.

Okla., Curtis—Curtis Township votes in December on bonds to build roads.

Okla., McAlester—Comrs. Plattsburg County soon votes on $600,000 bonds to build roads and bridges. W. S. O'Neal, McAlester, County Clk. Noted May 11.

Okla., Muskogee—Muskogee County plans road work. Address County Clk., Muskogee.

Okla., Tahlequah—See item under "Bridges."

Colo., Boulder—Council soon lets contract paving streets, concrete. G. R. Joslyn, City Engr. Noted Nov. 30.

Idaho, Twin Falls—City plans 8 mi. sidewalks. About $11,376. J. A. Bybee, City Engr.

Ariz., Douglas—City soon to let contract for 60,000 sq.yd. paving. G. N. Wood, City Engr.

Ariz., Yuma—Council plans paving portion First St.

Wash., Asotin—Asotin County receiving bids Dec. 11 Silcott Highway. About $10,000. V. G. Shellman, Asotin, County Engr. Noted June 15.

Wash., Kennewick—City plans to pave principal streets in spring. About $18,000.

Wash., Seattle—Bd. Pub. Wks. soon receives bids for paving portions 2nd Ave., N. E., East 47th, 50th and numerous other streets. A. H. Dimock, City Engr.

Ore., Enterprise—Hollow County plans road work in 1917. About $500,000. R. L. Rudd, Enterprise, County Engr.

Ore., Marshfield—City made preliminary plans Skyline Drive from Marshfield to North Bend. S. Lancaster, Portland, Engr.

Ore., Medford—(Official)—City does not plan hard surfacing streets, as noted in issue of Nov. 9.

Ore., St. Helens—Columbia County plans to improve portion Warren Rd. Address County Clk., St. Helens.

Ore., The Dalles—Wasco County voted $260,000 bonds to build highways. Noted July 6.

Calif., Bangor—Chamber of Commerce favors proposed Feather River Canyon Rd. and its extension beyond Quincy to connect with main highway to east.

Calif., Glendale—Bd. Supervs. Los Angeles County to let contract in December, grading and paving, cement curbs, etc., in Rd. Imp. Dist. No. 116 on Grand View and other avenues.

Calif., Hanford—City voted $200,000 bonds for street improvements. E. M. Lynch, Glendale, Engr. Noted Nov. 30.

Calif., Los Angeles—Los Angeles County soon lets contract, grading and constructing 2¾ mi. Torrance-Redondo Beach Rd. About $33,000. A. M. McPherrin, Los Angeles, County Clk.

Calif., Sacramento—W. L. Clark, Asst. State Highway Engr., making surveys highway from Maricopa to Ventura. Noted Nov. 23.

Calif., San Francisco—Bd. Pub. Wks. plans improving and extending Market St. Blvd. M. M. O'Shaughnessy, City Engr.

Calif., Sanger—Bd. Trustees plans grading, oiling and curbing 4 or 5 mi. streets.

Calif., Santa Ana—City rejected bids coast boulevard. New bids. C. C. Bonebrake, City Engr.

Calif., Ventura—Ventura County sold $150,000 bonds to build roads. Address County Clk., Ventura. Noted Nov. 2.

Calif., Woodland—Citizens of Yolo County plan to issue $1,250,000 bonds to build roads through county. A. G. Proctor, Woodland, Surv. Noted Nov. 30.

Ont., Leamington—City to let contract in spring concrete paving. About $35,000.

Bids In and Contracts Awarded

N. Y., Sprakers—New York Central & Hudson River R.R. let contract highway and demolition steel bridge east Sprakers to WALSH CONSTRUCTION CO., Davenport.

N. J., Flemington—Town rejected bids improving portion Flemington-Sand Brook Rd. Noted Nov. 23.

N. J., Jersey City—Bd. Freeholders Hudson County let contract repairing northerly arch Hudson County Blvd. to W. T. COUGHLIN, 586 Newark Ave., about $51,700.

N. J., Jersey City—(Official)—Bd. Comrs. received low bid paving portion Stegman St., brick, from A. Lietieri, 93½%. Noted Nov. 23.

Ala., Gadsden—City received low bids for paving portion South 4th and South 5th St. from J. F. Morgan & Co., Gadsden, $35,347; Ely Construction Co., Chattanooga, $46,079; Arnold Construction Co., $43,051. Noted July 20 and Sept. 28.

Ky., Corbin—County let contract 17-mi. road to MASON CONSTRUCTION CO., Emanuel, about $36,510.

Ky., Henderson—City let contract Riverside Driveway to C. K. BROWDER, $10,000. Noted Oct. 5.

Ohio, Bowling Green—Wood County let contract improving W. W. Billman and W. Westfield Rds. to C. J. MILLER, Chamber of Commerce Bldg., Toledo, about $7,000 and $6,500, respectively; D. Shanks Rd. to G. E. MERCER, R. F. D., Pemberville, $14,748.

Ohio, Greenville—Darke County let contract improving Yorkshire-Osgood Rd. to H. MANNING, New Watson, about $7,141.

Ohio, Huron—Huron County let contract Johnson Rd., Peru Township, to H. J. BALTS, Norwalk.

Ohio, Lancaster—Fairfield County let contract grading Sect. A, Logan-Lancaster Rd., Berne Township, to O. G. SHAFER, Caldwell, about $5,539.

Ind., Cannelton—Perry County let contract road Oil Township to S. T. FLANAGAN, St. Croix. Noted Sept. 28.

Ind., Ft. Wayne—(Official)—Allen County let contract concrete road in Adams Township to W. J. NEIDHART & CO., Anderson, $31,500. Noted Oct. 26.

Ind., Terre Haute—(Official)—Vigo County let contract gravel road in Harrison and Honey Creek Townships to J. W. CREASEY & SON, Terre Haute, and CARPENTER CONSTRUCTION CO. Noted Nov. 16.

Ind., Terre Haute—County received low bid Stevens Rd. from J. I. Unison, $6,475.

Ill., La Salle—Bd. Local Impvts. let contract paving Crevecoeure St. to F. W. KEYES. Noted Feb. 3.

Iowa, Dallas Center—City let contract J. HORRABIN & CO., Des Moines, 30,000 cu.yd. paving, $1.94 per cu.yd., 20,000 ft. curb and gutter, 10,000 yd. excavation, 48c. per yd.; J. MOFFITT & SON, Perry, curb and gutter, 56¾ per ft. Noted Aug. 31.

Iowa, Muscatine—Muscatine County let contract improving Sects. D and E, Muscatine-Montpelier Rd. to J. G. GRIMM, Wapello. Noted Nov. 9.

Minn., St. Paul—City let contract grading streets to KEOUGH BROS., Otto and Hamline St., about $27,287.

Kan., Leavenworth—Leavenworth County to build stone roadway by convict labor.

Kan., Wichita—City to repave portions Fountain Ave. and 1st and 2nd St. by day labor. Noted Nov. 2.

Mo., Chillicothe—City let contract paving portion West Calhoun St. to J. F. MEEK. Noted Sept. 7.

Mo., Kansas City—(Official)—City let contract paving Milwaukee Ave. to J. E. WELSH, 1122 East Gilliham Rd., $2.49 per sq.yd.

Tex., Crockett—Houston County let contract road work to SMITH BROS., Crockett.

Tex., Dallas—City let contract paving San Jacinto St. to TEXAS BITULITHIC CO., $19,785.

N. M., Albuquerque—City let contract paving Central Ave. to J. B. LAUGHLIN, Trinidad, Colo.

Wash., Colfax—(Official)—Whitman County let contract graveling 3¼ mi. Permanent Highway No. 13 to MULLIGAN BROS., 320 Eagle Blk., Spokane, $4,939. Noted Nov. 16.

Wash., Everett—Snohomish County received bids improving Rd. No. 30 from M. Odell, Seattle, $107,292; J. W. Hoover & Co., Everett, $109,439; Washington Paving Co., Seattle, $113,843. Noted Nov. 9.

Wash., Seattle—Bd. Pub. Wks. let contract paving Rainer Ave. to G. ARGENTIERI & CO., $15,343; 47th Ave. to J. L. SMITH, $31,535. Noted Oct. 12.

Wash., Seattle—City let contract improving West 65th St. to J. L. SMITH, 143 21st St., N., about $31,535.

Wash., Seattle—City let contract grading walks, etc., to J. L. SMITH, 143 21st St., N., $31,535; 11th Ave. to WASHINGTON PAVING CO., Smith Bldg., $27,991. Noted Nov. 30.

Wash., Walla Walla—County let contract highway from Walla Walla to Prescott to H. L. WILSON, Walla Walla, about $15,575. Noted June 15.

Calif., Burbank—City let contract improving Santa Anita Ave. to E. SCHELLING.

Calif., Los Angeles—City let contract improving portion Atlantic St. to G. H. OSWALD, 405 O. T. Johnson Bldg., $5,819.

Calif., Los Angeles—City let contract improving Russell Ave. to G. R. CURTIS, 552 South St. Louis St., $9,303.

Calif., Manhattan Beach—City let contract paving portion Blance Rd to CALIFORNIA-ARIZONA CONSTRUCTION CO. 1700 East Washington St., Los Angeles, $10,363.

Calif., Paradise—City to macadamize Neal Grade by day labor.

Calif., San Francisco—City let contract improving Phelan and Ocean Ave. to BLANCHARD-BROWN CO., 660 Market St., $19,263. Noted Nov. 30.

Calif., San Francisco—City let contract improving Academy St. to STATE IMPROVEMENT CO., Crocker Bldg., San Francisco.

Calif., San Francisco—City let contract improving Arthur Ave. to CITY STREET IMPROVEMENT CO., 166 Geary St., $15,080.

Calif., Santa Barbara—City let contract paving Santa Barbara and Pueblo St. to MUNICIPAL IMPROVEMENT CO., $10,851.

Calif., Tulare—City let contract paving to FEDERAL CONSTRUCTION CO., Sharon Bldg., San Francisco, about $19,900.

Calif., Watts—E. S. Croshong, Box 222, Burbank, submitted low bid improving portion Wall and Ann St. and Queen Ave., $6,311.

INDUSTRIAL WORKS

Proposed Work

Vt., Burlington—State of Vermont, Brandon, making plans laundry. About $10,000. I. J. Laurence, 135 College St., Burlington, Arch.

Mass., Boston—(Dorchester)—J. Cusher made plans 45x75-ft. and 102x136-ft. concrete and brick garage and repair shop, Bowdin St. About $35,000. W. P. Hatch, Arch.

Mass., Gardner—Gardner Paper Co. plans mill. About $40,000. C. P. Pearson, Chn. Com.

Mass., New Bedford—Whitman Mills Corporation plans addition. About $40,000.

Mass., Springfield—A. Steiger & Co. making plans 3- or 4-story factory, 265 Main St.

R. I., Providence—Franklin Machine Co making plans addition to foundry. About $15,000. G. P. McCready, 189 Charles St., Mgr. H. A Slocumb, 511 Westminster St., Engr.

Conn., Waterbury—Connecticut Co., 57 North Main St., making plans 1-story, 162x360-ft. car barn. About $125,000. H. L. Wales, Supt. in Waterbury.

N. Y., Dansville—Blum Shoe Co. plans 4-story warehouse. About $18,000. C. W. Eldredge, 316 Cutler Bldg., Rochester, Arch.

N. Y., Lockport—United Motors Corporation making plans addition to plant of Harrison Manufacturing Co., 101 Elm St., recently acquired. About $250,000. J. R. Tyler, German Life Insurance Bldg., Rochester, Arch. Noted Nov. 23.

N. Y., New Rochelle—H. W. Johns-Manville Co., Madison Ave. and 41st St., New York, making preliminary plans 6-story addition.

N. Y., New York—(Bronx)—(Official)—E. S. Napolis, 391 East 149th St., receiving bids 4-story, 80.10x133-ft. brick ice plant, Park Ave. and 168th St. About $150,000. J. L. Plock, 126 Liberty St., Manhattan, Arch.

N. Y., New York—(Brooklyn)—R. Norek, 1102 Eastern Pkway., making plans 1-story, 60x100-ft. garage. About $20,000. Cohn Bros., 361 Stone Ave., Arch.

N. Y., New York—(Brooklyn)—(Official)—National Aniline and Chemical Co., 100 William St., Manhattan, receiving bids 5-story, 65.10x100-ft. brick factory, Rodney St., N. W., near Wyeth Ave. About $100,000. H. R. Kent, 141 Broadway, Manhattan, Arch.

N. Y., New York—(Brooklyn)—H. Resiler, 293 Stone Ave., to make plans 1-story, 52x200-ft., brick and limestone garage, south side Atlantic Ave. near Ralph Ave. About $25,000.

N. Y., New York—(Brooklyn)—(Official)—S. Visconti, 147 Jackson Ave., Long Island City, receiving bids 1-story, 50x100-ft. brick factory, Frost St. and Manhattan Ave. About $10,000. Laspra & Salvati, 525 Grand St., Arch.

N. Y., New York—(Manhattan)—(Official)—Beekman Estate, Inc., 7 East 42nd St., receiving bids 2-story, 75x146-ft. brick laundry, 1st Ave. and 62nd St. S. J. Stammers, 320 5th Ave., Arch.

N. Y., New York—(Manhattan)—C. A. Bruhns, 152 Amsterdam Ave., making plans 4-story, 50x100-ft., brick and steel garage at 225-27 West 66th St. About $35,000. L. A. Sheinart, 194 Bowery, Arch.

N. Y., New York—(Manhattan)—K. M. Eyland made plans fireproof factory, storage and office building at 16 Beekman St. About $65,000. Taylor & Moseley, 40 Wall St., Arch.

N. Y., New York—(Queens)—H. Burkhardt plans plant, Edsall Ave. and Proctor St., Glendale. About $30,000.

N. Y., New York—(Queens)—C. Miller, 48 Beach 119th St., Rockaway Park, made plans 1-story, 100x200-ft. garage. About $75,000. I. Margon, 370 East 149th St., Bronx, Arch.

N. Y., North Tonawanda—Buffalo Sled Co. making plans warehouse and factory. About $150,000. W. Steele & Sons Co., 1500 Arch St., Philadelphia, Arch. C. D. Orcutt, Schenck St., Tonawanda, Mgr.

Industrial Works (Continued)

N. Y., Phelps, Bennett Corp., c/o W. J. Bennett, Sietz Bldg., Syracuse, making plans cement plant. About $1,250,000. Kennedy Engineering Co., 120 Broadway, New York, Engr.

N. Y., Phœnix—Burrows Paper Mill making plans to rebuild 1-story, 58x200-ft. mill. H. D. Phœnix, Union Bldg., Syracuse, Engr.

N. Y., Westfield—E. D. Gear Co., recently incorporated with $100,000 capital stock, plans factory. J. E. W. Bissell interested.

N. J., Asbury Park—J. C. English, Main St. and Asbury Ave., making preliminary plans 3-story, 50x135-ft. auto station and garage, 202 7th Ave. About $50,000. C. B. Cook, 505 Bond St., Arch.

N. J., Elizabeth—S. L. Moore & Sons Corp., Front St., making plans, 1-story, 40x200-ft. brick and steel foundry. About $20,000. Ring-Cleaves Graham Co., 280 Broad St., Arch.

Penn., Franklin—French Creek Foundry Co. made plans building on north branch French Creek.

Penn., Philadelphia—Crescent Ice and Coal Co., Woodland Ave., making plans 1-story, 56x230-ft. brick and steel plant, 25th and Morris St. York Manufacturing Co., Burd Bldg., Arch.

Penn., Philadelphia—Kahn & Greenberg, Morris Bldg., made plans 2-story, 30x160-ft. brick and concrete service building, 1214 North Broad St. L. E. Rothschild, Bulletin Bldg., Arch.

Penn., Stockertown—Hercules Cement Co., Finance Bldg., Philadelphia, making plans plant.

Md., Baltimore—(Official)—Black & Decker Manufacturing Co., 109-15 South Calvert St., purchased site of 10 acres on outskirts of city to be used for future additions. S. D. Black, Pres.

Md., Baltimore—M. W. Crooks, 2608 Pennsylvania Ave., to build 1-story, 195x200-ft. garage. About $35,000. J. R. Gerwig, 1811 Ashburton St., Arch.

D. C., Washington—Georgetown Ice Manufacturing Co. to build plant. About $13,000. C. M. Smith, 3327 K St., Mgr. W. C. Tolson, 1419 Washington St., Arch.

Va., Norfolk—W. P. Cake plans to spend about $50,000 for planing mill and lumber yard.

W. Va., Cabin Creek—(Coalburg post office)—Cabin Creek Refining Co., controlled by Ohio Cities Gas Co., Columbus, plans large plant.

W. Va., Dunbar—Virginian Potteries Co., recently incorporated with $300,000 capital stock, plans plant.

N. C., Brevard—Transylvania Tanning Co. organized with $250,000 capital stock, plans plant of 8 buildings. Main building to be 2-story, 70x650-ft. brick. About $150,000. J. N. Silverstein, Pres. J. M. Kilpatrick, Brevard, in charge construction.

N. C., Greensboro—Gate City Motor Co. made plans 2-story, 67x185-ft. brick garage. About $20,000. C. W. Edwards, Pres.

Miss., Greenwood—Churchill-Milton Lumber Co., Louisville, Ky., plans plant. About $25,000 or $35,000.

Ky., Lexington—Melick Refining Co. plans oil refinery. About $2,500,000. Address D. L. Melick, Lexington.

Ky., Louisville—Standard Oil Co. of Kentucky plans refinery near State Fair Grounds. About $1,000,000.

Ohio, Akron—Klages Coal and Ice Co. plans 1-story plant. About $80,000. A. C. Bishop, Citizens Bldg., Cleveland, Arch. and Engr.

Ohio, Cincinnati—American Radiator Co., 820 South Michigan St., made plans warehouse and storage building.

Ohio, Cleveland—American Bohemian Daily, 5379 Broadway, made plans 3-story publishing plant, Broadway and Mumford Ave. About $28,000.

Ohio, Cleveland—Atlas Bolt and Screw Co., 1289 Marquette Rd., making plans plant, Ivanhoe Rd. About $125,000. W. S. Ferguson Co., 1900 Euclid Ave., Arch. Noted Nov. 16.

Ohio, Cleveland—Belt and Terminal Realty Co. plans 1-story, 110x600-ft. factory. About $150,000. W. S. Ferguson Co., 1900 Euclid Bldg., Arch. and Engr.

Ohio, Cleveland—L. F. Brock and associates plan brass factory, Hamilton and East 49th St. About $40,000.

Ohio, Cleveland—Carbon Hydrogen Co., of America made plans 1-story, 26x100-ft. factory. About $20,000. G. S. King, Permanent Bldg., Arch., soon receives bids.

Ohio, Cleveland—Cleveland Twist Drill Co., Lakewise Ave. and East 49th St., plans 1-story addition. About $18,000.

Ohio, Cleveland—Elliott-Parker Electric Co., 4220 Hamilton Ave., made plans 4-story addition. About $30,000.

Ohio, Cleveland—Euclid Storage Co. soon receives bids 6-story warehouse. About $240,000. G. A. Grieble, 707 Park Bldg., Engr.

Ohio, Cleveland—J. Kleindoldohl plans factory buildings on Hamilton Ave. and East 49th St. First building to cost about $140,000.

Ohio, Cleveland—Lamson & Sessions Co., 2188 Scranton Rd., belt and screw manufacturer, made plans additions. About $32,000.

Ohio, Cleveland—Stark Auto Co., 2034 Euclid Ave., making plans garage, 8920 Euclid Ave. About $100,000.

Ohio, Cleveland—J. A. Wigmore Co. making plans 3-story factory. About $50,000. P. A. Frye, 1330 Williamson Bldg., Secy. and Gen. Mgr. Knox & Elliott, 1246 Rockefeller Bldg., Arch.

Ohio, Covington—Kelley-Koett Co. plans to enlarge plant. B. T. Wisenall, 617 First National Bank Bldg., Cincinnati, Arch.

Ohio, Lorain—Lorain Crystal Ice Co. plans 1-story plant. About $25,000. A. A. Plate, Gen. Mgr. A. C. Bishop, Citizens Bldg., Cleveland, Arch. and Engr

Ind., Evansville—Iglehart Bros., 2214 1st St., making plans 3-story, 70x170-ft. warehouse. About $18,000. F. R. Ingle, 421 Upper 1st St., Arch.

Ind., Logansport—Pennsylvania Lines West of Pittsburgh plans new shop. About $400,000. T. Rodd, Pennsylvania Station, Pittsburgh, Ch. Engr.

Mich., Flint—B. J. McDonald, 221 East 5th St., making plans 1-story, 66x192-ft. garage. About $25,000. H. J. Kaufman, Armory Bldg., Arch.

Mich., Grand Rapids—Kindel Bed Co., Garden and Jefferson Ave., plans 3-story, 80x160-ft. factory. C. Sercle, Mgr.

Mich., River Rouge—Ford Automobile Co., Detroit, making preliminary plans blast furnaces. About $5,000,000. Noted July 13.

Ill., Chicago—Farmers' Packing Co., 154 West Randolph St., making plans 2-story, 50x100-ft. plant. About $50,000.

Ill., Cicero—Automatic Screw Machine Products Co. making plans 1-story, 56x300-ft. factory. About $25,000. Day & Zimmerman, 611 Chestnut St., Philadelphia, Arch. and Engr.

Ill., Litchfield—Hamilton-Brown Shoe Co., 17th and Washington Ave., St. Louis, making plans 5-story, 37x250-ft. factory. About $70,000. A. B. Groves, Stock Exchange Bldg., St. Louis, Arch.

Wis., Kenosha—Winther Motor Truck Co., recently organized with $330,000 capital stock, purchased site on West Side for manufacturing plant.

Wis., La Crosse—Segelke, Kohlhaus Manufacturing Co. plans, 3- or 4-story, 60x180-ft. brick warehouse. Parkinson & Dockendorff, La Crosse, Arch.

Wis., Milwaukee—J. B. A. Kerk & Sons Co., recently incorporated with $150,000 capital stock, purchased site on Commerce St. for flour mill, dockage and warehouse.

Wis., New London—New London Motor Car Co., 9 South Pearl St., plans garage and repair shop. J. Beiumler in charge.

Minn., Duluth—Fountain Faucet Co., 61st Ave., granted permit factory. About $11,000.

Kan., Hutchinson—Labaree Flour Mills Corporation plans flour mill and grain elevator. About $500,000.

Kan., Independence—Western States Portland Cement Co. making plans new plant. About $100,000.

Neb., Omaha—Emerson-Brantingham Co., 1215-19 Leavenworth St., making plans 5-story, 120x132-ft. warehouse. P. W. Berry, Mgr.

Neb., Omaha—Home Builders, Brandeis Theater Bldg., plans 2-story, 99x132-ft. garage. About $30,000. J. T. Allen, 214 Brandeis Theater Bldg., Arch.

Neb., Omaha—D. D. Rullman, c/o Commercial Club, plans 2-story, 100x120-ft. factory for washing machines, 29th St. and Belt Line R.R. About $10,000.

Mo., Kansas City—Gustin-Bacon Manufacturing Co. plans rein.-con. plant. About $35,000. Smith Rea & Lovett, Kansas City, Arch.

Mo., Kansas City—R. T. Romine, 15th and Montgall St., making plans 2-story garage. About $30,000. J. O. Hogg, 946 New York Life Bldg., Arch.

Mo., St. Joseph—F. Brinson, St. Joseph, interested in ice plant, 6th and Atchison St. About $100,000.

Tex., Dallas—Sanger Bros. making plans 12-story warehouse. About $500,000. Lang & Witchell, Dallas, Arch. Noted Nov. 9.

Tex., Ft. Worth—Nissley Creamery Co. granted permit for plant. About $60,000. Noted Aug. 3.

Okla., Oklahoma—Stefen-Bretch Ice and Ice Cream Co. plans ice-storage and cold-storage warehouse.

Wash., North Yakima—Utah-Idaho Sugar Co. plans addition to factory. About $100,000.

Wash., Seattle—Western Gear Works, 1706 4th Ave., plans 2-story, 112x120-ft. plant, 9th Ave. S., and King St.

Calif., Los Angeles—Moreland Motor Truck Co., 1701 North Main St., plans plant. About $1,000,000.

Calif., Modesto—Valley Ice Co. plans plant. About $135,000.

Calif., Oakland—Cardinet Candy Co. plans factory on Market St. About $25,000.

Calif., Oakland—Pacific States Refineries Co., Fruitvale Ave. and Stewart St., plans plant. About $2,000,000.

Calif., San Francisco—L. Gillig plans 3-story, 82x120-ft. building, Post and Franklin St.

Calif., Ventura—S. B. McCloskey and J. Tweedale, Wilmington, plan fish cannery. About $60,000.

Calif., Wilmington—Union Oil Co., 6th and Spring St., Los Angeles, plans refinery. About $2,000,000.

Ont., Cochrane—Frederick House and Abitibi Pulp Wood Co. will be organized to build saw mills, woodworking plant and rosser plant. About $150,000. J. A. McAndrews, Lumsden Bldg., Toronto, interested.

Ont., Hamilton—Tallman Brass Co. plans addition. About $50,000.

Ont., Lindsay—Flavelles, Ltd., plans cold-storage and produce plant. About $75,000.

B. C., Prince Rupert—J. S. Emerson, 744 Hastings St., W., Vancouver, making plans sawmill, dry kilns, shingle and planing mills.

B. C., South Vancouver—D. Milne, Victoria, and G. R. Kennedy, Medicine Hat, Alta., plans rolling mill. About $150,000.

Bids In and Contracts Awarded

Mass., Boston—Alger Land Trust let contract 2-story, 55x106-ft. brick factory, 34 Old Colony Ave., to HOLT-FAIRCHILD CO., Old South Bldg.

Mass., Milton—W. Curtis & Sons Co. let contract saw mill and hydraulic development to H. NAWN CONTRACTING CO., 82 Savin St., Roxbury.

Mass., Springfield—Bozart Rug Co. let contract addition to F. T. LEY CO. About $10,000. Noted Sept. 14.

R. I., Central Falls—Union Wadding Co. let contract 3-story, 60x85-ft. addition to A. F. SMILEY, Oak Hall Bldg., Pawtucket. About $20,000.

R. I., Pawtucket—Glenyon Dye Works let contract 2-story addition to A. F. SMILEY, Oak Hall Bldg.

R. I., Pawtucket—Pawtucket Glazed Paper Co., 1 North Bend St., let contract addition to L. A. MURPHY, 136 Brook St. About $12,000.

R. I., Providence—Grocers' Baking Co. let contract plant, North Main St., to C. I. BIGNEY CONSTRUCTION CO., 898 Westminster St. About $40,000. Noted Oct. 26.

Conn., Bridgeport—Bridgeport Projectile Co. let contract 2-story addition to S. AUSTIN & SONS, 416 Newfield Bldg. About $150,000. Noted Nov. 23.

Conn., Bridgeport—W. P. Kirk Co., 369 Fairfield Ave., let contract factory and store building to T. J. PARDY CONSTRUCTION CO., 15 Fairfield Ave. About $75,000.

N. Y., Amsterdam—Fownes Bros. Co., 119 West 40th St., New York, let contract addition to H. C. GRIEME CO., Erie St., about $45,000.

N. Y., Beacon—Glenham Embroidery Co. let contract 1-story addition to AMSTERDAM BUILDING CO., 140 West 42d St.

N. Y., Depew—Andover Silk Co. let contract plant to B. U. TAYLOR & CO., 254 North Union St., Olean. About $35,000. Noted Sept. 21.

N. Y., New York—(Bronx)—Huntspoint Garage Co., 3210 3rd Ave., let contract garage, Southern Blvd. and Baretto St., to GERMANIA ENGINEERING AND CONSTRUCTION CO., 50 Union Sq., about $40,000.

N. Y., New York—(Brooklyn)—A. Ackerman, 59 Pearl St., let contract garage at 459 12th St., to W. R. SQUIRE, INC., 2 West 33d St., Manhattan. About $30,000. Noted Sept. 21.

N. Y., New York—(Brooklyn)—J. H. Rubin, 19 West 34th St., Manhattan, let contract alterations and additions to N. SARITSKY, 55 3rd Ave., Manhatan, about $20,000.

N. Y., New York—(Brooklyn)—Taylor & Co., 680 Morgan Ave., let contract additions to T. McHUGH, 676 Leonard St.

N. Y., New York—(Manhattan)—Anheuser-Busch Brewing Assoc., 425 11th Ave., let contract ice storage plant to A. BROSE CO., 1 Madison Ave. About $27,000.

N. Y., New York—(Manhattan)—O. Stahl, 2332 3rd Ave., let contract garage, 167 East 127th St., to LUSTBADER CONSTRUCTION CO., 103 Park Ave. About $150,000. Noted Nov. 2.

N. Y., New York—(Richmond)—L. A. Dreyfus Co., Maple Ave., Rosebank, let contract 4-story factory to TURNER CONSTRUCTION CO., 11 Broadway, Manhattan.

N. Y., Stottville—Atlantic Mills let contract 1-story, 80x100-ft. and 60x120-ft. additions to AUSTIN CO., Newfield Bldg., Bridgeport.

N. J., Hoboken—T. H. Carney, 504 West 27th St., New York, let contract 1-story and mezzanine brick factory, Clinton St., to LIMOUZE BROS., 810 Park Ave., Weehawken, about $16,000.

N. J., Jersey City—Air Reduction Co., 50 Broad St., Manhattan, let contract 2 additions to H. D. BEST CO., 52 Vanderbilt Ave., Manhattan. About $75,000.

N. J., Newark—Fiedler Corp., Firemen's Bldg., let contract garage at 524-26 Broad St., to F. FATZIER, 110 Broad St., Newark. About $30,000. Noted Nov. 30.

N. J., Newark—J. H. Meyer Tire Duck Co., 50 Union Sq., New York, let contract factory and boiler house to J. W. BISHOP, Wooster, about $75,000.

Industrial Works (Continued)

N. J., Newark—Standard Oil Co. of New Jersey, 31 Fulton St., let contract 2-story garage, 94-96½ Ogden St., to H. D. BEST CO., 52 Vanderbilt Ave., Manhattan. About $60,000. Noted Nov. 30.

N. J., Paterson—Society for Establishment of Useful Manufactures, Market St., let contract mill to P. S. VAN KIRK CO., 85 Fulton St. About $50,000.

N. J., Perth Amboy—Raritan Copper Works let contract blast furnace foot Elm St. to BERLIN CONSTRUCTION CO., Berlin, Conn. About $10,000. Noted Nov. 9.

Penn., Charleroi—R. C Mounster, 3rd and McKean Ave., let contract storage warehouse to S. W. SHARPNACK, Lock No. 4. About $35,000.

Penn., Easton—W. Kuebler & Sons let contract manufacturing building to A. A. BECHTEL, Easton, about $80,000.

Penn., Philadelphia—Gomery & Schwartz let contract factory, Broad and Cherry St., to CRAMP & CO., Denckla Bldg. About $400,000.

Penn., Philadelphia—Keystone Spinning Mills, 1631 North 2nd St., let contract addition to F. B. DAVIS, 240 North 16th St. About $10,000. Noted Oct. 12.

Penn., Philadelphia—Pottash Bros., 504 North American St., let contract factory to L. FARPSTEIN, 4122 Parkside Ave. Noted Nov. 16.

Penn., Pittsburgh—(Official)—Investment Land Co. let contract warehouse to STONE & WEBSTER ENGINEERING CORPORATION, 120 Broadway, New York. About $600,000.

Md., Baltimore—Baltimore Pearl Hominy Co. let contract warehouse to CONSOLIDATED ENGINEERING CO., Calvert Bldg. About $12,000.

Md., Baltimore—Rennous, Kleinle & Co., 321 Frederick Ave., let contract addition to CONSOLIDATED ENGINEERING CO., 243 Calvert Bldg. About $40,000.

W. Va., Fairmont—Fairmont Chemical Co. let contract plant to J. E. CROUSE, Fairmont. About $80,000. Noted Oct. 5.

W. Va., Sistersville—Ryan Boiler Works let general contract plant to BELLEFONTAINE BRIDGE AND STEEL CO., Bellefontaine, Ohio. About $25,000.

N. C., Spencer—Southern Ry. let contract shop to I. P. PETTYJOHN & CO., Lynchburg, Va. Noted Oct. 12.

Ohio, Canton—American Gas Engine Co. let contract warehouse to FERRO CONCRETE CONSTRUCTION CO., Richmond and Harriett St., Cincinnati. About $50,000.

Ohio, Cincinnati—C. Boldt Glass Works, Davis Lane and Pennsylvania R.R., let contract plant to FERRO CONCRETE CONSTRUCTION CO., Richmond and Harriett St. Noted Nov. 2.

Ohio, Cincinnati—Carlton Machine Tool Co., Pine and Queen City Ave., let contract plant, Spring Grove Ave. and Meeker St., to M. MARCUS BUILDING CO., 2023 Reading Rd. About $50,000. Noted Nov. 23.

Ohio, Cincinnati—Moore Oil Co., York and McLean Ave., let contract service station on Reading Rd. to J. B. SCHMITT. Noted Sept. 21.

Ohio, Cleveland—Cadillac Investment Co., East 20th St. and Euclid Ave., let contract garage, 1865 East 30th St., to CROWELL-LUNDORFF-LITTLE CO., 1951 East 57th St. About $100,000. Noted Nov. 23.

Ohio, Cleveland—Cleveland Builders' Supply Co., Leader News Bldg., let contract warehouse, East 131st St., to HUNKIN-CONKEY CONSTRUCTION CO., 321 Cuyahoga Bldg., about $60,000. Noted Nov. 16.

Ohio, Cleveland—Cleveland Machine Tool Works, 3215 Superior Ave., let contract addition to A. J. FRIEDMAN, 563 Hippodrome Annex. About $10,000.

Ohio, Cleveland—Osborn-Crew Manufacturing Co., Perkins Power Blk., let contract factory, East 39th St. and Pennsylvania R.R., to S. W. EMERSON CO., 1041 Engineers' Bldg., about $14,000. Noted Nov. 9.

Ohio, Toledo—Toledo Machine and Tool Co. let contract storage building to H. J. SPIEKER CO., Elm and Utica St. About $20,000. Noted May 4.

Ind., Ft. Wayne—P. A. Moran Ice Co., 801 Monroe St., let contract ice storage building to J. C. SMITH, 1702 East Wayne St. About $30,000. Noted Nov. 9.

Ind., Hammond—Paige & Jones Chemical Co. let contract addition to C. RHOADES. About $10,000.

Ind., Indianapolis—Parrott Tractor Co., Speedway, let contract factory to W. P. JUNGCLAUS CO., 725 Massachusetts Ave. About $40,000.

Ind., Whiting—Standard Oil Co., 72 West Adams St., Chicago, let contract tank shop to AUSTIN CO., 14,230 Euclid Ave., Cleveland. About $225,000.

Mich., Detroit—Burroughs Adding Machine Co., 2nd and Burroughs Ave., let contract 5-story, 66x470-ft. factory to BRYANT & DETWILER, Dime Bank Bldg.

Mich., Detroit—Melvic Enameling Co., 241 Beaufait Ave., let contract addition to H. A. JONES CONSTRUCTION CO., 70 Washington Blvd. About $10,000.

Mich., Wayne—Harroun Motors Corporation let contract warehouse, assembling plant and power house to A. J. SMITH CONSTRUCTION CO., 18 Campau Bldg., Detroit. About $75,000. Noted Oct. 19.

Ill., Chicago—Burnside Steel Co. let contract foundry to G. O. MARTIN, 9223 Cottage Grove Ave. About $30,000.

Ill., Chicago—Chicago River & Indiana R.R. let contract factory on 27th St. to E. W. SPROUL CO., 1120 West 35th St.

Ill., Chicago—R. N. Fair, 2222 Calumet Ave., let contract auto salesroom to A. & E. ANDERSON, 19 South La Salle St. About $100,000.

Ill., Chicago—D. J. Hauptman, 5325 Kenmore Ave., let contract foundry, 1738-42 Kolmer Ave., to SAMKOVITZ BROS., 139 North Clark St. About $15,000.

Ill., Chicago—R. W. Hood, 75 West Adams St., let contract factory to E. CLAYSON, 1307 North Harding St. About $35,000.

Ill., Danville—Sugar Creek Creamery Co. let contract creamery to F. L. KRAUEL, 601 Jewell St. About $50,000. Noted Oct. 12.

Ill., Joliet—Joliet Motor Car Co. let contract garage to W. SMITH. About $50,000.

Ill., Maywood—American Can Co., 120 Broadway, New York, let contract factory to THOMPSON-STARRETT CO., 175 West Jackson Blvd., Chicago. About $200,000

Ill., Moline—Swimming Pool—C. D. Wiman, 817 11th Ave., let contract to H. W. HORST CO., Horst Bldg., Rock Island.

Ill., Rock Island—Illinois Oil Co. to build 3-story, 34x102-ft. paint factory by day labor. About $75,000. F. P. Welch, 1517½ 2nd Ave., Gen. Mgr. Noted Oct. 19.

Wis., Baraboo—Johnson Fuel and Warehouse Co., Walnut and Lynn St., let contract grain elevator to J. C. STRATTON, 808-20 West Jackson St., Chicago. Noted Oct. 19.

Wis., Granville—Borden's Condensed Milk Co. let contract 2-story, 40x60-ft., brick factory to F. SCHOENROCK & SONS, New London.

Wis., Milwaukee—Blatz-Kasten Co., 115 Wisconsin St., let contract 3-story brick and concrete factory, at North Pierce and Center St., to P. RIESEN'S SONS, 1018 Humboldt Ave., Milwaukee. About $22,000. Noted Nov. 23.

Wis., Milwaukee—Maynard Steel Co., 176 Reed St., let contract addition to S. WABISZEWSKI, 880 Layton Blvd. Noted Nov. 9.

Wis., Oshkosh—Diamond Match Co. let contract plant to R. MEYER & SONS, Oshkosh. Noted Dec. 7.

Wis., Valders—Wisconsin Condensed Milk Co., Burlington, let contract plant to W. W. OEFLEIN, North Milwaukee. Noted Sept. 21.

Iowa, Des Moines—Taylor Motor Co. let contract garage to W. F. KUCHARO CO., Hubbell Bldg., about $44,295.

Minn., Minneapolis—Chevrolet Motor Co., 527 South 4th St., let contract garage to J. L. ROBINSON CO., 511 South 7th St. About $25,000. Noted Dec. 2.

Minn., St. Paul—F. Schmidt Brewing Co. let contract bottling plant to LAUER BROS., foot Chestnut St., about $70,000.

Mont., Butte—Hansen Packing Co. let contract 4-story plant to F. R. SMITH, Butte.

Mo., St. Louis—(Official)—Century Electric Co., 21st and Poplar St., let contract 3-story, 60x150-ft., rein.-con. warehouse to WOERMANN CONSTRUCTION CO., Suite 543 Century Bldg.

Okla., Miami—Ottawa County Ice Plant Co. let contract plant to J. J. SHOE, about $10,000. Noted Nov. 9.

Utah, Ogden—Ogden Utah Stock Yards let contract first unit new yards to J. STEWART & CO., about $50,000.

Que., St. Laurent d'Orleans—Canada Stove and Furniture Co., Ltd., let contract factory to F. A. GROTHE, 6 Cuthbert St., Montreal. About $16,000.

Ont., London—London & Port Stanley Ry. let contract enlarging shops to J. HAYMAN & SONS, Wellington St. About $12,000. Noted Nov. 23.

Ont., Toronto—Russell Motor Car Co., King and Duncan St., let contract addition to J. D. YOUNG & SON, 835 College St. About $12,000.

Sask., Swift Current—Campbell, Wilson & Strathdee let contract warehouse to MOORE & McWILLIAMS, Swift Current, about $23,000.

FEDERAL GOVERNMENT WORK

Proposed Work

Penn., Pittsburgh—Air Compressors—U. S. Engr. Office, Pittsburgh, receiving bids Dec. 29, 2 compressors and water turbine, with gear drive, at Lock No. 3, Monongahela River. (See adv.)

Md., Indian Head—Fire System—Bureau Yards and Docks, Navy Dept., Washington, D. C., receiving bids Dec. 26, at Naval Proving Ground. Noted Nov. 16.

D. C., Washington—Grading—Comrs., Washington, receiving bids Dec. 14, 201,000-cu.yd. on certain streets. (See adv.)

D. C., Washington—Traveling Cranes—F. R. Harris, Bureau Yards and Docks, Navy Dept., Washington, receiving bids Dec. 26, at Navy Yards in Norfolk, Va., and Philadelphia, Penn.

Va., Norfolk—Steam Heating System—Bureau Yards and Docks, Navy Dept., Washington, making plans. About $15,000.

W. Va., Wheeling—Lock and Guide Walls—U. S. Engr. Office, Wheeling, receiving bids Dec. 30, for Dams Nos. 23 and 25, Ohio River. (See adv.)

La., New Orleans—Iron and Wrought Steel Work—Lighthouse Inspector, New Orleans, receiving bids Dec. 28, Sabine Bank Light Station. (See adv.)

Ill., Mt. Carmel—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., receiving bids Dec. 26.

Panama—Miscellaneous Supplies—Gen. Pur. Officer, Panama Canal, receiving bids Dec. 12, Circular 2092.

Panama—Miscellaneous Supplies—Gen. Pur. Officer, Panama Canal, receiving bids Dec. 29, Circular 1105.

Bids In and Contracts Awarded

Mass., Chelsea—Sea Wall—Bureau Yards and Docks, Navy Dept., Washington, D. C., let contract to CAPE ANN CORPORATION, Beverley, $17,425. Noted Nov. 16.

N. Y., New York—Dredging—U. S. Engineer Office, Room 710, Armory Bldg., received low bids, Hudson River Channel, (a) Jersey City, (b) Weehawken-Edgewater, from Morris & Cumings Dredging Co., 17 State St., New York, (a) 18.93c.; (b) 23.93c.; Coastwise Dredging Co., Norfolk, Va., (a) 20.3c.; E. Breymann, Boston, Mass., (a) 15.25c.; (b) 19.25c. Noted Nov. 2.

N. J., East Orange—Post Office—J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., received low bids (a) limestone, (b) sandstone, from W. H. Fissell & Co., 1328 Broadway, (a) $147,000, (b) $149,000; E. T. Abbott Construction Co., 1133 Broadway, (a) $148,500, (b) $149,500; J. G. Unkefer & Co., Minerva, Ohio, (a) $156,000, (b) $157,500. Noted Oct. 26.

Del., Reedy Island—Wharf Improvement—Government let contract to NEWPORT CONTRACTING AND ENGINEERING CO., Newport News, $9,757. Noted Nov. 9.

Md., Annapolis—Sea Wall—Bureau of Yards and Docks, Navy Dept., Washington, D. C., received low bids, rein.-con., at U. S. Naval Academy, Annapolis, from Dorsey & Miller Co., Corcoran Bldg., Washington, D. C., Phoenix Construction Co., 41 Park Row, New York; Sanford & Brooks, 24 Commerce St., Baltimore. Noted Nov. 2.

D. C., Washington—Track Work—Dist. Comrs. received low bid Nov. 27 from Cranford Paving Co., 2620 East, N. W. St., Washington.

D. C., Washington—Sewers—Dist. Comrs. received low bids Nov. 28, (1) Sect. 8, Rock Creek Main Interceptor; (2) Sect. 7, 8, 9 and 10, Anacostia Main Interceptor; (a) excavation, (b) concrete masonry "E," (c) vitrified brick masonry, (d) sewer brick masonry; G. Hyman, 2117 East, N. W., (1a) $10, (1b) $7.50, (1c) $20, (1d) $15; (2a) $1.25, (2b) $7.50, (2c) $21, (2d) $15; W. F. Cush, 201 South, N. E., (1a) $49, (1b) $7.90, (1c) $23, (1d) $14; (2a) $0.85, (2b) $8.20, (2c) $23, (2d) $14; W. F. Brenizer Co., Q St. near 1st, N. W., (1a) $0.40, (1b) $8.10, (1c) $21, (1d) $16; (2a) $0.75, (2b) $8.25, (2c) $24, (2d) $15.

Tex., Sabine Pass—Jetty Work—U. S. Engr. Office, Dallas, received low bid, Sabine Pass, from D. M. PICTON & CO., Galveston, about $268,000. Noted Oct. 19.

Wash., Ft. Flagler—Outlet Sewer—Const. Quartermaster, Ft. Worden, received low bids, (a) Type No. 1, 6-in. galvanized steel pipe, rein.-con. pipe supports and piers; (b) Type No. 2, 6-in. galvanized steel pipe, pile supports and rock embankment; (c) Type No. 3, 6-in. c.-i. pipe, pile supports and rock embankment from Pearson Construction Co., New York Bldg., Seattle, (a) $7,726, (b) $8,342, (c) $6,860; H. A. Cotton, Port Townsend, Wash., (a) $5,240, (b) $5,750, (c) $3,970. Noted Nov. 2.

Hawaii, Pearl Harbor—Crane—Bureau of Yards and Docks, Navy Dept., Washington, D. C., received low bids, 50-ton locomotive jib from McMyler-Interstate Co., Bedford, Ohio, $159,385, $155,553; V. R. Browning & Co., Cleveland, Ohio, $94,852. Noted Nov. 2.

CANALS, DITCHES AND IRRIGATION

Proposed Work

Ga., Commerce—Drainage—Grove River Drainage Dist. No. 2 organized to build 7 mi. ditch. J. M. Wood, Commerce, interested.

La., Lake Charles—Canal—Calcasieu Navigation Dist. election Dec. 27 to vote on $260,000 bonds deepening Calcasieu-Sabine Sect. intercoastal canal. C. E. Going, Clooney Construction Co., Lake Charles, interested. Noted Nov. 23.

Ind., Crown Point—Ditch—Lake County Circuit Court to let contract Singleton Ditch to drain 150,000 acres along north bank Kankakee River through Lake County, emptying into Kankakee River above Monence, Ill., in spring. R. Seeley, Crown Point, Audr.

Iowa, Des Moines—Ditch—Polk County receiving bids Dec. 11 Ditch No. 21. About $21,672. Noted Nov. 9.

Iowa, Garner—Drainage—Hancock County plans to spend about $30,000 in Dist. No. 81 and

Canals, Ditches and Irrigation (Continued)

$200,000 in Dist. No. 8. W. S. Bemis, Jr., Garner, Engr.

Iowa, Rockwell City—Drainage—Calhoun County receiving bids Dec. 12 improving Dist. No. 222, 5,100 ft. of 6- to 10-in. tile. R. B. Dixon, Rockwell City, Audr.

Iowa, Sac City—Drainage—Sac County receives bids about Jan. 1 for Drainage Dist. No. 60, about 600,000 cu.yd. dredge or drag line excavation and 3,000-ft. 10- to 16-in. tile. J. H. Mayne, 235 Merriam Bldg., Council Bluffs, Engr.

Minn., Breckenridge—Ditch—Wilkin County sold $6,500 bonds to build Ditch No. 26. P. E. Truax, Breckenridge, County Audr. Noted Oct. 19.

Minn., Breckenridge—Ditch—Wilkin County plans to build Ditch No. 28. Address County Clk., Breckenridge.

Minn., Crookston—Ditch—Polk County receiving bids Jan. 25 Ditch No. 46. About $5,968. H. J. Welte, Crookston, County Audr.

Minn., Elbow Lake—(Official)—Ditch—Grant County receives bids Jan. 3 for Ditch No. 23, about 15 mi. tile drain. H. Dunaway, Elbow Lake, Engr.

Minn., Glencoe—Ditch—McLeod County receiving bids Dec. 22, Judicial Ditch No. 4, McLeod and Renville Counties, about 63,677 ft. 8- to 24-in. tile and 29,154 cu.yd. excavation. F. D. Stocking, Glencoe, County Audr.

Utah, St. George—Irrigation—Dixie Irrigation Co. applied to W. D. Beers, State Engr., for permission to divert 300 2nd ft. water from Rio Virgin River, build concrete dam and channel 26 mi. long and reclaim about 40,000 acres west of Hurricane, Washington County. About $750,000. C. B. Stewart, Salt Lake City, Atty.

Ore., Mt. Vernon—Ditch—Mt. Vernon Ditch Co. soon lets contract 4¾ mi. ditches.

Calif., Chowchilla—Irrigation—Chowchilla Reclamation Dist. will soon submit plans to Bd. Supervs. for irrigation. About $400,000. H. S. Wanzer and G. A. Howell, Dir.

Calif., Madera—Irrigation—Madera Irrigation Dist. making preliminary surveys to divert water from San Joaquin, Fresno and Chowchilla Rivers and tributaries to irrigate 400,000 acres of land in Merced and Madera Counties, including dams and reservoirs. About $4,000,000. F. Clare, Engr. Noted Feb. 24.

Calif., Marysville—Drainage—Reclamation Dist. No. 1600, Yuba County, plans drainage system. W. C. Hoke, Dir.

Calif., Modesto—Irrigation—Modesto—Irrigation Dist. making plans 3 concrete drops in Lateral No. 4. F. C. Herrman, Modesto, Ch. Engr.

Calif., San Dimas—M. N. Hazzard, 217 North Bright St., Whittier, receiving bids Jan. 1 irrigation system to include arched concrete dam 130 ft. high to store 17,000 acre-ft. Puddingstone Canyon, 6,000-ft. tunnel, 4-mi. canal and pipe line for flume. About $750,000. G. W. Sturtevant, 38 South Dearborn St., Chicago, Engr.

Calif., Tracy—Irrigation—West Side Irrigation Dist. receives bids about Dec. 15 for ditches, pumping plant, etc. Bonds for $295,000 voted for work. W. G. Hunter, 611 Commercial and Savings Bldg., Stockton, Engr. Noted Nov. 2.

Alta., Daysland—Reclamation—Dept. Pub. Wks., Edmonton, making plans for reclaiming tract land near Daysland. About $60,000.

Bids In and Contracts Awarded

N. Y., Albany—Barge Canal Work—State Supt. Pub. Wks. let contract Erie Canal, Contract No. 59, to MacARTHUR BROS., 130 Broadway, New York, $1,596,788. Noted Oct. 19.

N. Y., Albany—(Official)—Barge Canal Work—State Supt. Pub. Wks. let contract Erie Canal, Sect. 2, Contract No. 150, to BROWN & LOWE CO., 111 Foster Ave., Schenectady, about $21,780. Noted Nov. 30.

N. Y., New York—(Brooklyn)—Dredging—Bids received dredging at foot of 29th, 30th and 35th St., South Brooklyn, from Coastwise Dredging Co., 17 Battery Pl., Manhattan, 24c. per cu.yd.; P. Sanford Ross, 135 Bay St., Clifton, Richmond, 27.5c.; Morris & Cummings Dredging Co., 17 State St., Manhattan, 48c. Noted Nov. 23.

N. Y., New York—(Brooklyn)—Dredging—Comr. Docks let contract dredging head Mill Basin, Jamaica Bay, Contract No. 1462, to P. SANFORD ROSS, INC., 135 Bay St., Clifton, S. I., $0.113 per cu.yd. Noted Oct. 5.

Ga., Carnesville—Ditch—Franklin County let contract Rose Creek Drainage Ditch to THOMPSON & MOSELEY, Banner Bldg., Greensboro. About $12,184.

Iowa, Algona—Drainage—Kossuth County let contract Drain No. 21 to ELMORE CEMENT TILE CO., Elmore, about $48,548; and GRAETTINGER TILE WORKS, Graettinger, about $36,483.

Iowa, Algona—Drainage—Kossuth County let contract drains Dist. No. 41 to CHRISTIAN & ANDERSON, Titonka, about $7,112.

Minn., Benson—Ditch—Swift County let contract Ditch No. 15 to MINNESOTA CONSTRUCTION CO., Minneapolis, about $7,806. Noted Oct. 19.

Minn., Duluth—Ditch—St. Louis County received low bid Ditch No. 7 from W. C. Sargent, about $26,038. Noted Nov. 16.

Minn., Marshall—Ditch—Lyon County let contract Ditch No. 13 to TRACY CONSTRUCTION CO., Tracy, about $4,200.

Minn., Olivia—Ditch—Renville County let contract Ditch No. 14 to C. SORENSON, Slayton, about $18,250. Noted Oct. 5.

Minn., Olivia—Ditch—Renville County let contract Ditch No. 70 to W. B. BOSWORTH, Ada, about $27,000. Noted Nov. 23.

Minn., St. Paul—Ditch—Ramsey County let contract Ditch No. 14 to J. C. COX, St. Paul, about $15,250. Noted Nov. 16.

Minn., St. Peter—Ditch—County let contract Ditch No. 61 to G. ZERWAS, about $15,250.

N. D., Grand Forks—Ditch—Grand Forks County let contract Ditch No. 9 to HOYAN CONSTRUCTION CO. Noted Aug. 2.

Calif., Eldora—Drainage—Hardin County let contract material for Drainage Dist. No. 95 to ELDORA PIPE AND TILE CO., about $4,267.

Calif., Merced—Drainage—Levingston Dist. No. 1 let contract system to SHATTUCK-EDINGER CO., Richmond, about $32,000.

Calif., Modesto—Ditch—Butler Drainage Dist. let contract excavation to W. J. MILLER, 10c. per cu.yd.; pipe to F. R. WAY, 702 15th St., $1.15 per ft.

MISCELLANEOUS

Proposed Work

Mass., Fall River—Playground—Park Comrs. rejected bids for improving Warren St. Playground. Work to be done by day labor.

R. I., Newport—Sea Wall—City let contract to R. H. BEATTIE, Fall River, about $26,571.

Conn., Greenwich—Swimming Pool—R. A. Cowles, 99 John St., New York, plans. D. M. Ach, 1 Madison Ave., New York, Arch.

Conn., New Haven—Dock—City plans to issue $250,000 bonds to build dock. F. L. Ford, City Engr.

N. Y., Rochester—Dock—River and Harbor Com. adopted ordinance to purchase site dock east side Genesee River. F. T. Elwood, City Engr.

N. Y., Syracuse—Market House—J. Dolt Packing Co. making plans, 2-story, 80x150-ft. About $30,000. J. J. Cuff, 745 William St., Buffalo, Supt. Henschien & McLaren, 37 West Van Buren St., Chicago, Arch. and Engr.

N. Y., Yonkers—Mausoleum—Eastern Mausoleum Co. making plans, 2-story, 40x150-ft., Oakland Cemetery. About $90,000. Conant & Felch, 159 Washington Ave., Arch.

N. J., Atlantic City—Docks, Etc.—City plans docks and shipping terminals on harbor front. J. M. Hackney, City Engr.

N. J., Camden—Shipways—New York Shipbuilding Co. plans 2 shipways, 150x1,000-ft., to be 1st unit of proposed improvements.

N. J., Changewater—Coal Trestle, Etc.—Tide Water Pipe Co. plans rein.-con. coal trestle dump and retaining walls. F. Mellott, P. O. Box 455, Bradford, Arch.

N. J., Trenton Junction—Elimination Grade Crossing—Philadelphia & Reading Ry. plans tunnel to eliminate grade crossing. About $75,000, $10,000 of which will be borne by Trenton & Mercer County Corp., 137 State St., Trenton. S. T. Wagner, Reading Terminal, Philadelphia, Ch. Engr. Ry.

Penn., Chester—Pier and Bulkhead—Chester Shipbuilding Co., Ltd., Philadelphia, let contract to LATTA & ROBERTS, Drexel Bldg., Philadelphia. Noted Sept. 21.

Penn., Coatesville—Fire Station—West End Fire Co. No. 3 let contract to H. W. ULRICH, Strasburg, Lancaster post office. About $10,000. Noted Oct. 12.

Penn., Erie—Flood Protection—Council receiving bids Dec. 19 improving Mill Creek to prevent floods, about 2 mi. rein.-con. tube 18x22-ft., earth excavation, pipe, etc. F. Gannett, Telegraph Bldg., Harrisburg, Consult. Engr. Noted Aug. 10.

Penn., Girard Point—(Philadelphia post office)—Pier—Pennsylvania R.R. let contract improving Pier No. 1 to C. McDERMOTT CO., Commercial Trust Bldg., Philadelphia.

Penn., McKeesport—Elimination Grade Crossings—City, County, Pittsburgh Railways Co. and Pittsburgh & Lake Erie R.R. plan to eliminate grade crossing and enlarge viaduct on West 5th St. J. M. Smith, City Engr. J. A. Atwood, Pittsburgh & Lake Erie Terminal, and F. Uhlenhart, Jr., 435 6th Ave., Pittsburgh, Ch. Engrs. Rys.

Penn., Philadelphia—Park Improvements—City plans, Abbottsford Ave. and Schuyler St. About $5,000. W. B. Champlin, 587 City Hall, Secy. Bd. Recreation.

Penn., Philadelphia—(Official)—Piers—City receiving bids Dec. 21 pier foot Cherry St. G. S. Webster, 550 Bourse Bldg., Dir. Wharves, Docks and Ferries. Noted June 8.

Penn., Philadelphia—Subway—Dept. Transit, City Hall, making plans 2 sections Broad St. subway. C. E. Albright, City Engr.

Penn., Stroudsburg—Dam—Stroudsburg Passenger Railway Co. plans to rebuild dam over Pocono Creek. E. F. Smith, Main and Chestnut St., Secy. and Gen. Mgr.

Md., Cumberland—Subway—Baltimore & Ohio Railroad Co. let contract, Green St., to VANG CONSTRUCTION CO. About $40,000. Noted Sept. 7.

Ga., Savannah—Elimination Grade Crossings—Atlantic Coast Line R.R. and city plan to eliminate crossings. J. E. Willoughby, Wilmington, N. C., Ch. Engr. E. R. Conant, City Engr.

Tenn., Knoxville—Stadium and Grandstand—University of Tennessee plans. About $25,000 or $35,000.

Ohio, Canton—Track Elevation—Pennsylvania Lines West of Pittsburgh made plans track elevation from Buckhill to property United Furnace Co. About $3,000,000. T. Rodd, Pennsylvania Station, Pittsburgh, Ch. Engr.

Ohio, Columbus—Coliseum—Citizens plan Legislature will be asked to contribute to project.

Ohio, Columbus—Retaining Wall—City let contract, 5th Ave. and Cleveland, Cincinnati, Chicago & St. Louis Ry. to FRITZ-RUMER-COOKE-GRANT CO., Ohio Electric Bldg.

Ohio, Hamilton—(Official)—Fire Station—Citizens defeated $12,000 bonds to build fire station. Noted Nov. 23.

Ohio, Newark—Elimination Grade Crossings—Comrs. Essex County petitioned by citizens of Newark and Newton Township to eliminate 4 crossings between Newark and Utica along Lake Erie Div. of Baltimore & Ohio Railroad Co. C. H. Wells, City Engr.

Ind., Evansville—(Official)—Market House—Bd. Pub. Wks. receiving bids Dec. 12, Little Market Sq., 1st Ave. and Pennsylvania St. J. D. Saunders, City Engr. C. Shopwell & Co., 707 Furniture Exchange Bldg., Arch. Noted Sept. 21.

Ind., Ft. Wayne—Tunnel—General Electric Co. let contract to INDIANA ENGINEERING AND CONSTRUCTION CO., Lincoln Life Bldg., Ft. Wayne.

Mich., Grand Rapids—Grade Separation—City approved plans for grade separation of Grand Trunk Ry. at Alpine Ave., N. W. About $22,000, half of which will be borne by railroad. W. S. Moore, City Engr. Noted June 1.

Wis., Madison—Lion House—Bd. Park Comrs. plans, Madison Zoo. About $15,000.

Iowa, Avon—Elimination Grade Crossings—Chicago, Rock Island & Pacific Ry. submitted plans to Bd. Superv., Des Moines, proposed viaduct to eliminate grade crossing Des Moines-Carlisle Rd. C. A. Morse, La Salle St. Sta., Chicago, Ch. Engr.

Iowa, Clinton—Subway—Chicago & Northwestern Ry. plans, 2nd and 4th St., also freight and passenger stations. W. H. Finley, Jackson Blvd. and Franklin St., Ch. Engr.

Minn., St. Paul—Shelter Houses—City making plans, Como, Mounds and Cherokee Heights Parks. C. A. Hausler, City Arch. O. Claussen, City Engr.

Mont., Dillon—Coal Chutes—Oregon Short Line R.R. to rebuild coal chutes destroyed by fire. About $10,000. C. Stradley, Salt Lake City, Ch. Engr.

Mo., St. Louis—Tank—Zoological Society plans elliptical tank for sea lions, Zoological Gardens, 50x100-ft., rein.-con. T. P. Barnett Co., Central Bank Bldg., Arch.

Ark., Little Rock—Mausoleum—Southwestern Mausoleum Co., Siloam Springs, plans.

Tex., Anahuac—Bulkhead—City making plans to rebuild bulkhead across Turtle Bay.

Tex., Brownwood—Fire Station—City making plans. W. A. Storey, City Clk.

Tex., Dallas—Fire Station—City making plans in Oak Cliff. About $10,000. J. O. Gill, Arch.

Tex., Wichita Falls—Park Improvements—City voted $7,500 bonds to improve parks. L. C. Hinckley, City Engr. Noted Oct. 26.

Okla., Healdton—Pipe Line—Pierce Oil Corp., 320 Olive St., St. Louis, plans, 100 mi. 8-in. from Healdton to Ft. Worth. About $1,000,000.

Colo., Denver—Subway—J. B. Hunter, City Engr., estimates cost subway at 38th St. at from $221,000 to $474,670.

Wash., Seattle—Market—Frye Packing Co. let contract, east side 1st Ave., to M. SCHUCHLE, 9316 7th Ave., South Seattle. About $40,000. Noted Nov. 2.

Calif., Alameda—Bulkhead and Filling—Southern Pacific Co. appropriated $175,000. W. Hood, Flood Bldg., San Francisco, Ch. Engr.

Calif., San Pedro—Drydock and Shipyard—City plans election to vote on $1,000,000 bonds to build drydock and shipyard, Los Angeles Harbor. F. T. Woodman, Mayor.

Calif., Wilmington—Wharf, Etc.—City plans wharf about 1,200 ft. long, Los Angeles Harbor; also dredging channel to depth 30 ft.

Ont., Port Dover—Harbor Improvements—A. Lamp, Engr. Dept. Pub. Wks., Windsor, to make plans for improving docks at harbor. About $75,000. Noted Feb. 24.

B. C., North Vancouver—Docks—Canadian Robert Dollar Co. plans, 800-ft. About $200,000.

Bids In and Contracts Awarded

R. I., Providence—Seawall—Bd. Contract and Supply received low bid excavating and filling from J. Marsh, Providence, 23½c. per cu.yd.

Miscellaneous (Continued)

N. Y., New York—(Brooklyn)—(Official)—Elevated Railway—Low bidders connecting link between New Utrecht Ave. (West End Line) and Culver Rapid Transit R.R., Sect. 1-A, Route 49, were: T. Dwyer, Broadway and 216th St., $42,268; Post & McCord, 101 Park Ave., $43,987; A. L. Guidone & Son, Inc., 52 Vanderbilt Ave., $44,853, all Manhattan. Noted Nov. 23.

N. Y., New York—(Manhattan)—Station Finish—Low bidders station finish for 9 stations of Seventh Ave.-Lexington Ave. Rapid Transit R.R. were: Seventh Ave. Contracting Co., Inc., 335 West 16th St., $399,000; D. C. Serber, 1123 Broadway, $410,000; T. Dwyer, Broadway and 216th St., $413,000. These are unofficial totals. Noted Nov. 23.

Penn., Philadelphia—Park Improvements—E. H. Vare, Lincoln Bldg., only bidder improving eastern portion League Island Park. About $500,000.

Penn., Philadelphia—Trestle, etc.—Pennsylvania R.R. let contract coal trestle and crane building, Delaware and Washington Ave., to BRANN & STUART CO., Commercial Trade Bldg., about $25,000.

La., New Orleans—Levee—Sarpy St. Charles Parish let contract 180,000 cu.yd. earthwork to GRASSE CONTRACTING CO., Hennen Bldg., 15.80c. per cu.yd.

Mo., Kansas City—Pavilion—Park Bd. received low bid, Swope Park, from N. Miller, 3112 Highland Ave., $16,664. Noted Sept. 21.

Tex., Dallas—Levee—Dallas County Levee Impvt. Dist. No. 1 let contract 5 mi. 10-ft. and 5 mi. 10-ft. and 5 mi. 5-ft. levee on west bank Trinity River to W. C. CALLAHAN CONSTRUCTION CO., Omaha, Neb. Bonds for $48,000 voted for work. Noted Oct. 26.

Tex., Galveston—Bulkhead—City let contract along crest seawall improvement fill between 16th and 17th St. to BLODGETT CONSTRUCTION CO., Galveston, about $6,002. Noted Nov. 16.

Calif., Newport Beach—Tide Gate—City let contract, Bolsa Chica Gun Club, to MERCEREAU BRIDGE AND CONSTRUCTION CO., Pacific Electric Bldg., Los Angeles, about $10,000

BUILDINGS

Proposed Work

Other items relative to Building Construction will be found under the following headings: "Industrial Works," "Federal Government Work" and "Miscellaneous."

Mass., Farmington—Church—Methodist Episcopal Congregation making plans. About $40,000. W. H. Taylor, 50 Bromfield St., Boston, Arch.

Mass., South Hadley—Dormitory—Mt. Holyoke College making plans. About $150,000. Brainerd & Leeds, 89 Franklin St., Boston, Arch.

Mass., Worcester—Y. M. C. A. making plans for building. L. E. Jallade, 37 Liberty St., New York, Arch. F. L. Miller, Gen. Secy.

Conn., Danbury—High and Grade School—City made plans. P. N. Sunderland, 81 West St., Arch.

Conn., Hartford—Clubhouse—Shuttle Meadow Club plans, 2-story. About $50,000.

Conn., Hartford—Y. M. C. A. revising plans 5-story building. About $215,000. L. E. Jallade, 37 Liberty St., New York, Arch. Noted Sept. 21.

Conn., Waterbury—High School—Bd. Education receiving bids Dec. 20. Freney & Jackson, 51 Leavenworth St, Arch.

N. Y., Clifton Springs—Sanitorium—Clifton Springs Sanitorium making plans, 3-story. Pierce & Bickford, 118 Lake St., Elmira, Arch.

N. Y., Garden City—Clubhouse—Garden City Country Club, plans, 2½-story, 80x140-ft. About $45,000. M. Smith, Bank Bldg., Far Rockaway, Arch.

N. Y., Newburgh—Hotel—J. S. Shattuck, 80 North Pearl St., making plans. About $350,000. A. R. Murphy, Prop. Kenmore Hotel, Albany, interested.

N. Y., New York—(Brooklyn)—(Official)—Riding Academy—A. Vogt, Dean St. and Franklin Ave., receiving bids, 2-story, 167x168-ft., brick, at Malbone St. and Franklin Ave. About $50,000. I. A. Crawford, Arch.

N. Y., New York—(Brooklyn)—Arlington Ave. Presbyterian Church plans Sunday school building. About $40,000.

N. Y., New York—(Queens)—(Official)—Clubhouse, Office and Store—New York Municipal Railway Corporation, 85 Clinton St., Brooklyn, plans, at Jamaica Ave. and Puntine St., Jamaica. About $60,000.

N. Y., New York—(Manhattan)—Hospital—Bd. Trustees Bellevue Hospital receiving bids Dec. 12, additions. J. W. Brannan, Pres. Noted Nov. 2.

N. Y., New York—(Richmond)—Hospital—Dept. Pub. Charities, Municipal Bldg., Manhattan, receiving bids Dec. 15, additions to Sea View Hospital at Sea View, S. I. J. A. Kinsbury, Comr. Noted June 15.

N. Y., Syracuse—School—City making plans, 2-story. About $80,000. Russell & King, 602 Snow Bldg., Arch.

N. Y., Watertown—Office—New York Air Brake Co., 165 Broadway, New York, making plans 3-story. S. M. Green Co., 293 Bridge St., Springfield, Mass., Engr. and Arch.

N. Y., Watervliet—Orphan's Home—St. Coleman's Home made preliminary plans, 3-story. About $50,000. M. L. and H. G. Emery, 42 North Pearl St., Albany, Arch.

N. J., Camden—School—City receiving bids Dec. 15 for sale of $200,000 bonds. G. A. Frey, City Treas.

N. J., Jersey City—Theater—C. H. Ziegler, 75 Montgomery St., made plans 2-story, brick and granite. About $40,000. Mrs. O. Wetter, 266 Pearsall Ave., interested.

N. J., Newark—School—State Bd. Education voted to ask Legislature to authorize appropriation for State Normal School.

N. J., New Brunswick—Freight Station—Pennsylvania R.R. plans; also addition to freight terminal About $90,000. A. C. Shand, Broad St. Station, Philadelphia, Ch. Engr.

N. J., Passaic—Rafner Bros. purchased site at Main Ave., plans 4-story building. About $75,000.

N. J., Passaic—High School—Bd. Education plans, on 2nd Ward Park Grounds. About $200,000.

N. J., Plainfield—Y. M. C. A. plans building. About $200,000.

N. J., Princeton—Laboratory—Princeton University making plans, 3-story. Day & Klauder, 925 Chestnut St., Philadelphia, Arch.

N. J., Princeton—Art Building—Bd. Trustees, Princeton University, plans addition. About $250,000.

N. J., Ridgefield Park—High School—Bd. Education plans, 3-story, 63x125-ft. About $90,000. E. Sibley, Palisades Park, Arch.

N. J., Trenton—School—State Bd. Education plans Normal School in South Jersey. About $250,000.

Penn., Aspinwall—High School—Bd. Education receiving bids Dec. 15, 2-story, 75x160-ft. About $75,000. P. C. Dowler, Arrott Bldg, Arch Noted Nov. 30.

Penn., Bryn Mawr—Hospital—Bryn Mawr Hospital made plans, 3-story, 30x56-ft. Furness, Evans & Co., Franklin Bank Bldg., Philadelphia, Arch.

Penn., Farrell—Church—St. Ann's Congregation receiving bids Dec. 19 for 1-story, 56x100-ft. About $50,000. J. B. Verbeck, Theater Bldg, Oil City, Arch.

Penn., Ft. Washington—Assembly Hall and School—Upper Dublin Township plans 1- and 2-story. About $40,000. C. E. Schermerhorn and W. K. Philips, 430 Walnut St., Arch.

Penn., Harrisburg—High School—City voted $1,250,000 bonds.

Penn., McKees Rock—School—Bd. Education voted $150,000 bonds. Noted Oct. 26.

Penn., Reinerton—School—School Bd. receiving bids Dec. 4 for 2-story, brick vocational school. Hauer & Mowers, Lebanon, Arch. Noted Nov. 2.

Penn., Sharon—Sharon Lodge of Elks making plans for 4-story building. About $50,000. E. J. Weaver, McDowell Bldg. Arch Noted Nov. 23.

Penn., Swarthmore—Dormitory—Swarthmore College making plans, 3-story. About $50,000. Karcher & Smith, 34 South 17th St., Philadelphia, Arch. Noted July 20.

Penn., York—Bank—First National Bank plans. About $100,000. Gemmill & Billmeyer, Rosenmiller Bldg, Arch.

Md., Baltimore—University School for Boys, Bellona and Gittings Ave., making plans, 3 buildings. About $75,000. T. G. Machen and T. B. Owings, Arch. Noted Nov. 23.

Md., Baltimore—Dormitory—Johns Hopkins University making plans. About $120,000.

Md., College Park—Maryland Agricultural College making plans 3-story, 58x200-ft. Agricultural building. About $165,000. Flourney & Flourney, McLena Bldg., Arch.

Md., Frostburg—Dormitories—Frostburg Normal School making plans for 3-story. C. M. Anderson, 324 North Charles St., Arch. Noted Sept. 21.

Md., Havre de Grace—Hotel—Susquehanna Inn making plans for 3-story, 100x175-ft. About $100,000. T. W. Pietsch, 101 American Bldg., Arch.

Va., Bristol—College—Trustees Sullins College plan, 3-story. C. B. Kearfott, Galloway Bldg, Arch.

Va., Richmond—Atlantic Coast Line Ry. plans to improve freight terminals. About $500,000. J. E. Willoughby, Wilmington, N. C., Ch. Engr.

Va., Wytheville—School—Virginia Baptist General Assoc. plans for boys. About $100,000.

W. Va., Charleston—High School—Bd. Education made plans, 2-story, on Lincoln School Grounds. About $70,000. F. L. Packard, Hayden Bldg., Columbus, Ohio, Arch. Noted Nov. 9.

W. Va., Wheeling—Theater—J. Velas, T. Kokenes, Wheeling, and S. Gallas, East Liverpool, Ohio, plans 67x136-ft., at Market and 16th St. About $100,000.

N. C., Winston-Salem—Elks Home and Auditorium Co. plans theater and store building on 5th St. About $150,000.

N. C., Woodland—School—School Bd. making plans, 2-story, 62x72-ft. W. N. Diehl, Chamberlaine Bldg, Norfolk, Va., Arch.

S. C., Columbia—Parish School and Public Hall—St. Peters Church plans, 2-story, brick. T. J. Hegarty, Pastor.

S. C., Greenville—High School—School Trustees making plans About $65,000. P. T. Hayne, Chn. Noted Feb. 10.

S. C., Newberry—Exchange Bank plans 3-story bank and office building.

S. C., Winnsboro—Jail—County defeated $50,000 bonds to build jail. Noted Mar. 23.

Ga., Atlanta—Theater—C. W. McClure plans at 15 Houston St.

Ga., Macon—Hotel—Shangler & Cummings making plans, 75x125-ft. P. E. Dannis, Macon, Arch.

Fla., Key West—Hotel—Florida-East Coast Co. plans About $250,000.

Fla., Ocala—School—State Bd. Comrs. making preliminary plans, Girls Industrial School.

Ala., Leighton—School—Bd. Education receiving bids Dec. 15 Knight & Quale, Chattanooga, Tenn., Engr.

La., Baton Rouge—Schools—Baton Rouge School Dist. voted $125,000 bonds for 3 schools.

La., Shreveport—Bank and Office—Merchants Building Co., recently incorporated with $300,000 capital stock, plans, 10-story.

Ky., Louisville—Sanitorium—General Association of Baptists plans. About $250,000.

Ohio, Cincinnati—Hotel—H. Hake & C. Kuck, Archs., Telephone Bldg., making preliminary plans for Schuler Hotel. About $300,000.

Ohio, Cincinnati—School—Bd. Education receiving bids Dec. 11 for 1- and 2-story. About $50,000. Bausmith & Drainie, 901 Gerke Bldg., Arch.

Ohio, Cleveland—Bank and Office—Lorain St. Bank Co. soon to let contract, at Lorain and Fulton St. About $100,000. W. J. Carter, Illuminating Bldg., Arch.

Ohio, Cleveland—Church—Immanuel Baptist Congregation, Superior Ave. and Parkwood Dr., made plans, at Saywell and East 123rd St. About $50,000. Fulton & Butler, Uniontown, Penn., Arch.

Ohio, Cleveland—Schools—Bd. Education plans 3-story. About $350,000. W. R. McCormick, Arch.

Ohio, Cleveland—School—City voted $75,000 bonds for addition to Corlett School. W. R. McCormack, Arch. Noted Oct. 5.

Ohio, Dayton—Church—Grace Methodist Episcopal Congregation plans. About $150,000 Scheneck & Williams, 591 Arcade Bldg., Arch.

Ohio, Dayton—Bank and Office—Dayton Savings and Trust Co. soon receives bids, 10-story, 50x178-ft. About $250,000. Schenck & Williams, Arcade Bldg, Dayton, Arch.

Ohio, Galion—Grade and High School—Bd. Education voted $150,000 bonds, 2-story. Howard & Merriam, 8 East Broad St., Columbus, Arch. Noted July 20.

Ohio, Lancaster—High School—Bd. Education voted $90,000 bonds. D. Riebel & Sons, 906 New First National Bank Bldg., Columbus, Arch.

Ohio, Lebanon—High School—Village School Dist. making plans. About $60,000. Bausmith & Drainie, Gerke Bldg, Cincinnati, Arch. Noted Nov 2.

Ohio, Lewistown—School—City plans. Rush & Sheets, 145 North High St., Columbus, Arch.

Ohio, Lima—High School—School Bd. approved plans Bids soon About $400,000. McLaughlin & Hulsken, 610 Savings Bldg., Arch. Noted Oct 26.

Ohio, Lima—(Official)—City receiving bids Jan. 15 for South Side Technical High School. About $75,000. Noted Nov. 16.

Ohio, Lorain—Hotel—C. Farrell plans, 5-story, on Broadway and Erie Ave.

Ohio, Massillon—Nurses' Home—Massillon City Hospital making plans, 2-story. About $50,000 E Harrman, Central Savings Bank Bldg., Canton, Arch.

Ohio, Newark—Church—Fifth Ave. Baptist Congregation receiving bids Dec. 12, 1-story. About $65,000 E E Pruitt, Hartman Bldg., Columbus, Arch. Noted Aug. 24.

Ohio, Oberlin—Women's Building—Oberlin College making plans. About $75,000.

Ohio, Portsmouth—School—Bd. Education receiving bids Dec 22. About $60,000 Ritter & Bates, 46 First National Bank Bldg., Portsmouth, Arch. Noted Oct. 5.

Ohio, Rocky River—School—Bd. Education making preliminary plans, brick. About $60,000. N. H. Nicklas, 1900 Euclid Ave., Cleveland, Arch. Noted Nov. 16.

Ohio, Sandusky—Hotel—West House making preliminary plans, 5-story. About $500,000. H. C. Millott, Bliss Bldg, Arch.

Ohio, Toledo—Hotel—Waldorf Realty Co. increased capital from $100,000 to $900,000, plans addition, at Summit St. and Madison Ave.

Buildings (Continued)

Ohio, Toledo—Council passed ordinance for $100,000 bonds for building workhouse.

Ohio, Troy—(Official)—High School—Miami County plans, centralized school, Bethel Township. About $100,000. Schenk & Walker, 20 Robert Blvd., Dayton, Arch.

Ind., Columbia City—School—Whitley County, Washington Township, receiving bids Dec. 20. D. V. White, Trustee.

Ind., Ft. Wayne—Parochial School—St. Patrick's Church making plans 2-story, 75x150-ft. Mahurin & Mahurin, 124 West Jefferson St., Arch.

Ind., Indianapolis—Church—First United Brethren Congregation plans, at Park Ave. and St. Clair St. About $40,000. Rev. D. J. Good, Pastor.

Ind., Indianapolis—Y. W. C. A. plans new building. About $200,000. Mrs. M. A. Potter interested.

Ind., Lafayette—Theater—J. and S. Loeb, plan, 6-story, at 6th and Main St. About $150,000.

Ind., Pennville—Church—Methodist Congregation receiving bids Dec. 15. M. B. McCarty, Secy. Bd. Trustees.

Mich., Battle Creek—Hotel—Lindsay Estate making plans for 4-story, 31x67-ft. About $50,000. H. J. Puffer, Post Bldg., Arch.

Mich., Benton Harbor—Church—First Congregational made plans. About $100,000. Elwood & Elwood, Elkhart, Arch.

Mich., Detroit—Library—City soon to receive bids. Adam Stromh, Corres. Secy. of Detroit Library Bd.

Mich., Flint—School—Bd. Education plans, 2-story, on Ave. A, between Newall and Hamilton. About $101,000.

Mich., Ironwood—School—Bd. Education making plans, 3-story, 85x146-ft. About $90,000. C. J. Anderson & Co., 301 Wilner Bldg., Green Bay, Arch.

Mich., Marquette—Jail—Marquette County defeated $50,000 bonds. Noted May 25.

Mich., Springwells—School—School Dist. receiving bids Dec. 11. A. W. Holmes, Treas.

Mich., Walkerville—(Official)—High School—School Bd. does not plan, as noted in issue of Nov. 16.

Ill., Chicago—Central Manufacturing District plans freight terminal station, 39th St. between Ashland and Western Ave.

Ill., Chicago—Hotel—Drake Hotel Co. making plans, Lake Shore Dr. and Lincoln Blvd. About $5,000,000. Marshall & Fox, 38 South Dearborn St., Arch.

Ill., Chicago—Hotel—J. P. Friend made plans for 12-story, 148x164-ft., on Surf and Pine Grove St. About $800,000. H. R. Wilson & Co., 104 South Michigan Ave., Arch.

Ill., Chicago—Clubhouse—Nineteenth Century Club, plans at Ontario St. and North Grove Ave. About $60,000.

Ill., Maywood—Masonic Temple—Maywood Lodge, No. 869, making plans for 3-story, 50x100-ft. About $40,000. E. E. Roberts, 105 North Clark St., Arch.

Ill., Quincy—School—Bd. Education, Quincy School Dist. No. 172, Adams County, receiving bids Dec. 18, Dewey School. Noted Nov. 30.

Wis., Ashland—Hotel—Ashland Brewing Co. remodeling building, 3-story, 50x75-ft. H. Wildhagen, 513 West 2nd St., Ashland, Arch.

Wis., Hurley—School—Bd. Education receiving bids in February, 3-story. About $50,000. C. J. Anderson & Co., 301 Wilner Bldg., Green Bay, Arch. Noted Nov. 30.

Wis., Madison—Church—Lutheran Memorial Congregation plans. About $75,000.

Wis., Manitowac—School—City voted $50,000 bonds. J. Kelly, Clk.

Wis., Milwaukee—Office—P. Gross Hardware Co. plans, 10-story, 80x120-ft., at Grand Ave. A. E. Gross, Vice-Pres.

Wis., Waukesha—School—City making plans. About $250,000. Van Ryn & DeGelleke, Caswell Bldg., Milwaukee. Noted Oct. 5.

Iowa, Auburn—High School—City votes Dec. 11 on $50,000 bonds to build high school.

Iowa, Carroll—High School—Independent School Dist. receiving bids Dec. 15, 2-story, 88x140-ft. About $80,000. C. A. Dieman, Grenby Bldg., Cedar Rapids, Arch. Noted Sept. 28.

Iowa, Cedar Rapids—(Official)—A. N. Palmer, 300 Irving Pl., New York, does not plan rein.-con., 4-story, 120x140-ft. business building at Cedar Rapids, as noted in Nov. 16 issue.

Iowa, Centerville—(Official)—High School—City receiving bids Dec. 12 to vote on $150,000 bonds. Noted Nov. 16.

Iowa, Des Moines—Consistory Cathedral—Scottish Rite made plans, contract soon to be let, 5-story, stone exterior. About $325,000. K. K. Keffer, 610 Youngerman Bl., Arch. Noted Nov. 30.

Iowa, Oskaloosa—High School—City votes Dec. 28 on $120,000 bonds to build high school. Noted May 11.

Iowa, Sergeant Bluff—School—Bd. Education soon to let contract for brick and stone. About $75,000. W. L. Steele, Sioux City, Arch. W. L. Beiflage, Pres. School Bd. Noted Sept.

Minn., Cloquet—High School—Bd. Education made plans, 3-story, 100x130-ft. Bids in February. About $70,000. Noted Nov. 16.

Minn., Duluth—Clubhouse—Knights of Pythias, North State Lodge, plans. About $50,000.

Minn., Hendricks—High and Grade School—City receiving bids Dec. 16. A. L. Swenson, Clk. of School Bd.

Minn., Mankato—Hotel, Store and Office—McMichael Investment Co., 354 Plymouth Bldg., making plans, 7-story. About $250,000. C. T. McElroy, 416 Essex Bldg., Minneapolis, Arch.

Minn., Thief River Falls—School—Bd. Education plans, 10-story. About $30,000.

Minn., Wacomia—High School—School Dist. No. 44, Carver County, receiving bids Dec. 10. P. J. Nimmer, School Clk. Noted Nov. 23.

Minn., White Bear—Hotel—Proposed on White Bear Lake, between Shary Lane and Johnson Ave. About $60,000. J. W. Ryckman, 114 East Endicott Arcade, St. Paul, interested.

Minn., Winona—Dormitory—State Normal School Bd., St. Paul, making plans women's dormitory at Local State Normal School.

Kan., Abilene—High School—City making plans, 2-story, 98x150-ft., brick and stone. About $90,000. W. H. Sayler, Gumbel Bldg., Kansas City, Mo., Arch. Noted Oct. 26.

Kan., Atchison—Convention Hall—City plans election to vote on $100,000.

Kan., Clyde—School—Bd. Education voted $40,000 bonds for building school. Noted Nov. 9.

Kan., Hoisington—Hotel and Theater—B Baker soon to let contract for 2-story, 75x150-ft. About $40,000. W. E. Hulse & Co., Hutchinson. Noted June 1.

Kan., Marysville—Hospital—Marshall County defeated $40,000 bonds. Address County Clk., Marysville. Noted Oct. 26.

Kan., Salina—Mary Mound Girls' College receiving bids Mar. 1 for buildings. About $200,000. C. A. Smith, Arch.

Kan., Sedan—Court House—Chautauqua County making plans, 2-story. About $50,000. G. P. Washington & Son, Ottawa, Arch. Noted Oct. 26.

Kan., Smith Center—Court House—Smith County voted $80,000 bonds. Address County Clk., Smith Center. Noted Oct. 26.

Kan., Topeka—Home—Knights and Ladies of Security making plans for aged, orphans and invalids. J. M. Kirkpatrick, Pres.

Kan., Wichita—School—Bd. Education receiving bids Feb. 1. About $75,000. L. Schmid, 120 North Market St., Arch. Noted Nov. 23.

Neb., Fremont—Courthouse—Dodge County receiving bids Dec. 10, 3-story, 74x120-ft. About $100,000. A. H. Dyer & Co., Fremont, Arch.

Neb., Fremont—**Auditorium**—City plans. G. A. Murrell, Mayor.

Neb., Hastings—Hospital—Sisters of Mercy plan. About $100,000.

Neb., Omaha—Office—Nebraska Telephone Co. plans, 15-story.

Neb., Omaha—Hotel—H. A. Wolfe, 514 Ware Bldg., making plans for 10-story, 66x122-ft. About $400,000. J. & A. McDonald, 905 Omaha National Bank Bldg., Arch.

Neb., Plattsmouth—School—Bd. Education made plans for 2-story, 64x120-ft. About $65,000. Berlinghoff & Davis, Security Mutual Life Bldg., Lincoln, Arch. Noted Nov. 2.

S. D., McIntosh—Courthouse—City defeated bonds.

S. D., Sioux Falls—School—Lutheran Normal School making plans, 2-story, 42x117-ft. N. O. Monesrud, Dakota Trust and Savings Co., Chmn. Noted Sept. 14.

Mont., Anaconda—High School—City plans; also additions. About $270,000.

Mont., Butte—Hotel—H. M. Baker plans.

Mont., Butte—Hospital—F. Hamill, Arch., Butte, making plans, Deaconess Hospital.

Mont., Lewiston—Hotel—H. B. Farrell approved plans, 6-story. About $350,000. Noted Nov. 30.

Mo., Cameron—Missouri Wesleyan College receives bids about Jan. 1 to rebuild Liberal Arts Bldg., destroyed by fire with loss of $65,000. M. S. Martin, Arch. Noted Nov. 23.

Mo., Columbus—Church—Methodist Episcopal Congregation plans About $150,000. Rev. C. C. Grimes, Pastor.

Mo., Columbia—Clubhouse—University of Missouri plans. About $250,000. H. Kinyon, Alumni Secy.

Mo., Joplin—Office—J. Ferguson soon lets contract, 3-story, 75x100-ft. About $150,000. E. P. Madorie, 832 Reserve Bank Bldg., Kansas City, Arch. Noted Nov. 23.

Mo., Joplin—City Hall—City plans voting bonds.

Mo., Kansas City—J. Flanagan interested in construction of 17-story building at 117-23 West 12th St.

Mo., Mexico—Chapel—Westminster College plans. About $75,000. A. Reed, Pres.

Mo., St. Louis—Y. M. C. A. receiving bids in February, 4-story, 100x160-ft. building. About $200,000. W. Wedemeyer, 825 Wainwright Bldg., Arch.

Tex., Austin—**State** soon to let contract for 4-story land office building. About $300,000. A. B. Ayers, Arch. Noted Nov. 16.

Tex., Austin—**University** Presbyterian Church plans building. About **$60,000.** S. G. Gabriel, interested.

Tex., Beaumont—C. W. Howth making plans rein.-con. business building. About $50,000.

Tex., Beaumont—School—City receiving bids Dec. 19, Junker School. Sanguinet, Staats & Gottlieb, Houston, Arch.

Tex., Beaumont—McBride & Law plan terminal building adjoining wharf at Peal and Austin St. About $50,000 or $60,000.

Tex., Brady—Lodge—F. and A. M. plans 3-story, rein.-con.

Tex., Dallas—Bank and Office—Merchants' Building Co., recently organized, plans, 10-story, at Market and Milam St.

Tex., Dallas—Cobb & Crofford Co. plans 4-story apartment hotel. About $70,000.

Tex., El Paso—Cathedral—Ancient, F. & A. Scottish Rite Masons making plans, 2-story, concrete, brick and terra cotta. About $180,000. Greene & Greene, Dallas, Arch.

Tex., Ft. Worth—Sanitarium—Johnson & Beall, Lamar and 6th St., plans, 3-story. About $65,000.

Tex., San Antonio—Hotel—St. Louis Syndicate plans. About $560,000. J. F. Walker, Arch.

Okla., Ardmore—Office—B. A Simpson made plans, 6-story. Contract soon to be let.

Okla., Tulsa—School—City to vote in January on $460,000 bonds.

Okla., Tulsa—Science Building—Kendall College making plans for 3-story, 40x75-ft. About $40,000. Schumacher & Atkinson, 520 Mayo Bldg., Arch.

Colo., Colorado Springs—Bank—First National Bank plans at Pikes Peak and Tejon St. About $400,000. J. A. Hayes, Pres.

Colo., Denver—Auto Equipment plans building on Broadway, between 12th and 13th St.

Idaho, Idaho Falls—Courthouse and Jail—County defeated $100,000 bonds to build courthouse and jail. Noted Oct. 26.

Idaho, Sandpoint—High School—City plans. About $90,000.

Idaho, Twin Falls—(Official)—City defeated $40,000 bonds to construct building. Noted Nov. 2

Wash., Chehalis—Hotel—C. E. Troutman, Arch., Electric Bldg., receiving bids Feb. 1, 4-story, 112x180-ft. About $60,000.

Wash., Spokane—Lodge—B. P. O. E. of Spokane plans. About $250,000.

Ore., Bend—Hospital and Convent—Sisters of Charity of Nazareth making plans. About $75,000. Beezer Bros., Northern Bank Bldg., Seattle, Arch. Noted Nov. 16.

Calif., Berkeley—Theater—Williamson & Bradshaw made plans, 2-story, on University Ave. About $50,000. J. W. Plachek, Acheson Bldg., Arch. Noted Nov. 9.

Calif., Berkeley—Student Building—University of California made plans for 4-story Student Union Building. About $200,000.

Calif., Chico—Chico Normal School made plans for 2-story concrete building or for 2 1-story buildings; about $46,000 and $36,000 respectively.

Calif., Los Angeles—W. J. Dodd and W. Richards, Arch., Brockman Bldg., Los Angeles, making plans for department store, at 7th and Olive St.

Calif., Los Angeles—New York Cloak and Suit House purchased site on Grand Ave. and plans 10-story, rein.-con., brick and terra cota building. W. J. Dood and W. Richards, Brockman Bldg., Arch.

Calif., San Bernardino—Pasenger Station—Topeka & Santa Fe R.R. making plans. About $500,000. C. F. W. Felt, Chicago, Ill., Ch. Engr.

Calif., San Francisco—Home—Hebrew Orphanage plans. About $350,000. H. Fleishhacker, Chn.

Calif., Santa Barbara—Church—First Presbyterian Congregation made plans, 3-story, 80x150-ft. About $80,000. R. E. Sauter, San Marcos Bldg., Arch.

Calif., Visalia—Jail—Bd. Superv. Tulare County, receiving bids Dec. 18. E. Mathewson, Fresno, Arch. Noted Aug. 3.

N. S., Sydney—Church—Roman Catholic Congregation plans. About $60,000. R. McInnes, Whitney Pier, Sydney, Pastor.

Que., Montreal—School—School Comn. plans, on Notre Dame St. C. A. Reeves, 83 Craig St., W., Arch.

Que., St. Hyacinthe—Church—Roman Catholic Congregation making plans. About $150,000. McDuff & Lemieux, 320 University St., Montreal, Arch.

Ont., Toronto—Store—T. Eaton Co., Department Stores, making plans. About $15,000,000.

Bids In and Contracts Awarded

Maine, Islesboro—Hotel—Islesboro Inn Co. let contract 3-story, 45x200-ft. to G. H. WILBUR & SON, 31 Exchange St., Bangor. About $90,000. Noted Nov. 23.

Mass., Boston—Gymnasium—Boston School of Physical Education let contract 3-story, to GASCOIGNE & GODDARD, 19 Milk St., Boston.

Mass., Lynn—School—Greek Church Society let contract, South Common St., to SWAIN CONSTRUCTION CO., 67 State St., Lynn.

Mass., Somerville—Church—First Universalist Congregation let contract, 30x120-ft., brick, to J. M. HARTWELL, 46 Cornhill Ave., Boston. About $40,000. Noted Oct. 26.

Buildings (Continued)

R. I., Providence—Bank—Rhode Island Hospital Trust Co. let contract 11-story, to G. A. FULLER CONSTRUCTION CO., 111 Broadway, New York.

Conn., Hartford—Travelers Insurance Co. let contract, 11-story addition to building to MARC EIDLITZ & SON, 30 East 42nd St., New York.

N. Y., Elmira—Dormitory—Elmira College let contract 3-story, 40x142-ft., to LOWMAN CONSTRUCTION CO., 201 Lake St. About $60,000. Noted Nov. 9.

N. J., Long Branch—Hotel—I. Miller, 22 East Broadway, New York, let contract 3-story, 38x160-ft. to B. WOLFSON, 35 2nd Ave., $50,000.

N. J., Lyndhurst—High School—Bd. Education let contract 3-story, 63x102-ft., to EYRICH & WARD, Grantwood. About $60,000. Noted Aug. 24.

N. J., Newark—Police Station—City let contract to ESSEX CONSTRUCTION CO., 85 Academy St., $112,600. Noted Nov. 2.

N. J., Newark—(Official)—Passenger Station—Central R.R. of New Jersey let contract, at 832-6 Broad St., to F. D. HYDE, 90 West St., New York. Noted Nov. 30.

N. J., Passaic—Clubhouse—Polish People's Home let contract 2-story, to J. TAUBER, 40 Passaic St. About $45,000. Noted July 20.

Penn., Easton—Store—W. Kueblers Sons let contract, 3-story, 45x100-ft., brick and concrete to A. A. BECHTEL, Easton, $80,000.

Penn., Philadelphia—Nurses' Home—City received low bid, 4-story addition, on 34th St., from Warren-Moore & Co., $198,000. P. H. Johnson, Land Title Bldg., Philadelphia, Arch. Noted Nov. 30.

D. C., Washington—Auditorium—Knickerbocker Theater Co., 3520 16th St., let contract 3-story to F. L. WAGNER, 1413 H St., N. W., Washington. About $80,000.

N. C., Asheville—Hotel—Kenilworth Hotel Co. let contract, rein.-con. and tile to CAROLINA WOOD PRODUCTS CO., Asheville. About $250,000.

Ga., Atlanta—Y. M. C. A. let contract 5-story, 65x125-ft. building to SOUTHERN FERRO CONCRETE CO., Equitable Bldg., Atlanta. Noted Nov. 9.

Ga., Atlanta—Bank—Union Savings Bank let contract to SOUTHERN FERRO CONCRETE CO., Equitable Bldg., Atlanta. About $60,000. Noted Aug. 31.

Fla., Orlando—Theater—P. Philips, M. D., let contract, 65x118-ft., Pine St. and Orange Ave. to F. A. PEPPERCORN, Orlando. About $50,000. Noted Oct. 12.

Fla., Orlando—Hospital—City let contract, on Orange St., to HANNER BROS., $61,300.

Fla., Tampa—Clubhouse—Circulo Cubano Club let contract 4-story, to McGUCKEN & HYER, $59,773.

La., New Orleans—Church—Napoleon Ave. Presbyterian Congregation let contract to W. W. VAN METER, 808 Perdido St., New Orleans. About $57,000.

Ohio, Cincinnati—(Official)—High School—Bd. Education received low bid, East Side, from Roose Bros., 2814 Stanton W. H., $144,000.

Ohio, East Palestine—Hotel and Club House—W. C. Owen & Co., 408 Euclid Bldg., Cleveland, making plans, 4-story, 44x120-ft. About $75,000.

Ohio, Youngstown—Parochial School—St. Elizabeth's Slovak Church let contract 3-story, 88x122-ft., to J. DUVOLICH, 126 South Pearl St. About $80,000.

Mich., Jackson—Lodge and Store—Jackson Country Club Building Co. let contract 3-story, 86x132-ft., to NORTH & BRADSHAW, 119 West Courtland St., Jackson. About $90,000. Noted June 29.

Mich., Ypsilanti—Hospital—City rejected bids. S. Damon, City Clk.

Wis., La Crosse—State Bd. Regents, Madison, let contract 3-story, 30x58-ft. physical-training building, to C. NOBLE, State Noble Bank Bldg., La Crosse. Noted Aug. 10.

Iowa, Early—School—City let contract to HINTZ, McKEE & GORDES, $72,000.

Iowa, Havelock—(Official)—School—Consolidated School Dist. let contract, 2-story, 62x152-ft., to DUBEL & ANDERSON, Sioux City, $46,800. Noted Nov. 2.

Iowa, Rolfe—High and Grade School—Independent School Dist. let contract 2-story, 62x153-ft., to STANDARD CONSTRUCTION CO., Plymouth Bldg., Minneapolis, Minn. About $80,000. Noted Nov. 2.

Minn., Anoka—Hospital—State Bd. let contract 3-story, 55x95-ft., to CAMERON & CO., 505 Ryan Bldg., St. Paul. Noted Nov. 30.

Minn., St. Paul—Clubhouse and Store—St. Paul Athletic Club let contract 12-story, 100x150-ft., to C. SKOOGLUN, 502 Ryan Bldg., St. Paul. About $650,000. Noted Sept. 7.

Mo., Joplin—Pasenger Station—Missouri, Pacific Railway System let contract to H. O. HIRSCH Wainwright Bldg., St. Louis, $50,000.

Mo., Joplin—High School—City let contract, on 8th and Wall St., to DIETER & WENZEL $195,293.

Mo., St. Joseph—Hotel—Buchanan Hotel let contract addition, Rocidouz, 5th and Francis St., to LAWHON STAMEY CONSTRUCTION CO., 212 North 7th St. Noted Aug. 10.

Tex., Vernon—Hotel—J. H. Kinchelee let contract to G. A. SWINBURN, Vernon.

Okla., Ardmore—Passenger Station—Gulf, Colorado & Santa Fe Railroad Co. let contract to H. D. McCoy, Cleburn, Tex., $40,000.

Okla., Perry—Courthouse—City let contract to MANHATTAN CONSTRUCTION CO., Muskogee. About $100,000.

Ariz., Kingman—High School—City let contract rein.-con. to EDWARDS & WILDEY CO., 515 Black Bldg., Los Angeles, Calif., $46,750.

Calif., Fresno—Hospital—Fresno County received low bid, addition, from Manning Bros., $63,850. Noted Oct. 26.

Calif., Los Angeles—Los Angeles Union Terminal Co. let contract, 4 buildings, to WURSTER CONSTRUCTION CO., Spreckles Bldg., San Diego, $2,500,000.

Calif., South San Francisco—High School—School Trustees let contract to H. WILLIAMS, Hearst Bldg., San Francisco, $59,700.

Calif., Stanford University—Library—City let contract to P. J. WALKER CO., Monadnock Bldg., San Francisco, $500,000.

Que., Montreal—Theater—Victoria Theater Co. let contract to A. ANGLINS, LTD., 65 Victoria St., $125,000. Noted Nov. 23.

TRADE PUBLICATIONS

Facts About Gears. The Van Dorn & Dutton Co., Cleveland, Ohio. Booklet; pp. 40; 5½x7½ in.; illustrated. This contains tabulated data on gearing terms, drawings, specifications, etc.

Vasco Vanadium Steel. Vanadium-Alloys Steel Co., Pittsburgh, Penn. Folder describing various types of this alloy steel.

Ingersoll-Rogler Air Compressors. Ingersoll-Rand Co., 11 Broadway, New York. Form No. 3130; pp. 24; 6x9 in.; illustrated. Describing machines fitted with the new-type light-plate valves.

Blawforms. Blaw Steel Construction Co., Pittsburgh, Penn. Catalog No. 16; pp. 128; 6x9 in.; illustrated. This contains text and photographs showing the adaptability of Blaw steel forms for concrete work of all kinds.

Lime and Hydrated Lime Plant Equipment. Atlas Engineering Co., Amherst, Ohio. Bulletin No. 101; pp. 18; 6x9 in.; illustrated.

The "Crescent" Electric Industrial Truck. Samuel L. Moore & Sons Corporation, Elizabeth, N. J. Bulletin No. 103; pp. 8; 6x9 in.; illustrated.

Nut Locks. The O. K. Nut Lock Co., Turks Head Bldg., Providence, R. I. Catalog; pp. 12; 6½x9 in.; illustrated.

Concrete Construction. Turner Construction Co., 11 Broadway, New York. Bulletin No. 19; pp. 14; illustrated. This shows the construction of a building in winter.

Efficiency of Dirt-Handling Methods is discussed in a pamphlet entitled "Cycles of Cost and Operation," issued by the Western Wheeled Scraper Co., Aurora, Ill. Covers railway maintenance-of-way and betterment work and is especially intended for railway executives and engineers. Pp. 16; 8½x11 in.; illustrated.

Little David Pneumatic Riveting Hammers. Ingersoll-Rand Co., 11 Broadway, New York. Form No. 8311; pp. 16; 6x9 in.; illustrated.

Simplex Pole Jack. Templeton, Kenly & Co., Ltd., 1020 South Central Ave., Chicago, Ill. Bulletin; pp. 8; 8½x11 in.; illustrated. This describes jack specially designed for pulling, straightening and reinforcing telephone, trolley and lighting poles.

Chinese Railways—Efforts are being made to revive the project of railway extension in Anhui Province planned some time ago. Routes from Hangchow to Kuangteh and Hweichow have already been surveyed, and arrangements are now being made between the Chekiang and Anhui promoters and the representatives of the Shanghai-Hangchow Nanking Ry. The completion of this railroad will bring Mokanshan summer resort within a few hours of Shanghai, and will also afford transportation for the stone of the Shanghai Municipal Pingchiao quarry to Hangchow and Shanghai. It is proposed to induce the Government to hasten the building of the line, which will be beneficial to all interests in Anhui. Construction work on the Canton-Hankow railway has continued despite the war, but it will be impossible to push on to completion the section from Wuchang to the border of Kwangtung Province, where it is to join with the section being constructed from Canton northward. Connection will, at all events, be made between Wuchang and Changsha, the capital of Hunan, a distance of 225 mi., by the end of this year. Bridging is proving exceedingly expensive and difficult, the rise of water from low to high tide being about 40 ft., and necessitating unusually high bridges. Some 52 mi. of rails have already been laid south from Wuchang, and it is hoped soon to operate a regular service.

Louis C. Kelsey, Consult. Engr., has opened a branch office in the Twin Falls Trust Bldg., Twin Falls, Idaho. Main offices will be retained at 410 Selling Bldg., Portland, Ore.

The Construction and Repair Division, Headquarters Southern Department, Office Department Quartermaster, Fort Sam Houston, Tex., would like to receive from material dealers and manufacturing companies, catalogs and price lists of all supplies handled by them.

The Lidgerwood Manufacturing Co., New York, has opened a branch office in the Hibernian Bldg., Los Angeles, Calif. Charles A. Baechtold is in charge.

The Ransome Concrete Machinery Co., Dunellen, N. J., has been obliged to make an advance of 10% in the list price of all machinery, and probably will make another advance of 10% in the selling prices after Jan. 1, 1917. This is owing to the scarcity of raw materials and labor due to the exportation to European countries of war munitions and materials.

The Terry Steam Turbine Co., Hartford, Conn., announces the appointment of Stephenson & Nichols, Monadnock Bldg., San Francisco, Calif., as its representative in northern and central California and the northern part of Nevada.

ROAD, BALTIMORE, MD.

Bids were received by Water Department, Filtration Division, for Contract No. 44, constructing Rd. No. 4 at Loch Raven, from (A) CAROZZA & CHRISTHILF (awarded contract); (B) Thomas Mullan; (C) C. B. Clark & Co. The item bids were as follows:

	A	B	C
Clearing and grubbing (lump sum)	$200.00	$400.00	$125.00
8,000 cu.yd. earth excavation and embankment	.45	.75	.60
500 cu.yd. loose rock excavation	.60	1.00	1.20
800 cu.yd. solid rock excavation	1.00	.01	3.00
328 cu.yd. concrete	12.44	15.00	14.00
20,800 lb. steel reinforcement	.06½	.08	.05½
18,500 sq.yd. paving roads with tar-bound-macadam	1.39	1.25	1.30
1,500 lin.ft. wooden guard rail	.60	.75	.35
1,600 lb. c.-i. grating	.12	.08	.10
Extended totals	$37,139	$37,870	$38,396

INTERCEPTING SEWER, MILWAUKEE, WIS.

Contract No. 14

Bids were received by the Sewerage Commission, Nov. 16, for Contract No. 14 of the West Side Milwaukee River Intercepting Sewer from (A) HERMAN HOHENSEE, Milwaukee (awarded contract); (B) G. E. Zimmerman, Milwaukee; (C) J. F. Casey Co., Pittsburgh, Penn.; James Ferry & Sons, Inc., Baltimore, Md., $120,660; Sterling Engineering and Construction Co., Milwaukee, $139,535; J. Kennedy, Fargo, N. D., $172,850; Wisconsin Tunnel and Construction Co., Milwaukee, $152,305. The item bids of the 3 lowest bidders were as follows:

	A	B	C
244 lin.ft. reinforced concrete aqueduct	$10,000.00	$14,800.00	$10,000.00
60 lin.ft. 8-in. terra cotta pipe connections at Aver ave.	7.00	200.00	154.00
3,900 lin.ft. 60-in. concrete sewer	16.90	16.70	17.75
1,550 lin.ft. 60-in. reinforced concrete sewer	18.90	17.50	18.75
100 lin.ft. 24-in. terra cotta pipe culvert	7.00	7.00	2.50
240 lin.ft. 18-in. terra cotta pipe culvert	7.90	6.00	2.00
200 vert. ft. standard manholes	5.00	7.00	6.00
18 c.-i. manhole frames and covers	12.00	20.00	20.00
26,000 b.m. ft. plank foundation	22.00	22.00	25.00
10,000 b.m. ft. timber caps	30.00	25.00	25.00
6,000 lin.ft. piles in place	.40	.30	.50
3,000 lin.ft. underdrain	.35	.40	.50
Extended totals	$113,346	$114,977	$116,131